

UNITED STATES  
DEPARTMENT OF THE INTERIOR

—  
GEOLOGICAL SURVEY

—  
9-133

VI.



H. S. Hadd  
1701 Jefferson  
Birmingham, Ala.

VI

1941

Reviewed 8/5/42



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May 22 - Thurs. (continued)

1941 Along RR. near Hicksville - Round Mt. area.

Dbs N35E, 21SE on RR N78E of Fir Trail to town  
+ 84W of Hicksville Ch.

" N15E, 18SE on RR at mth. N.C. creek

" N10E, 23SE " " S40E of Hicksville Ch  
(mile post 7 from Suter)

" N8W, 15E on RR N75E, church

" N20W, 8E " " N55E "

" N80W 30N " " 8 mi. from Suter

" N55W 9N " " outside bend see map

" N40E, 12N " " close to Rd. Xing - map  
(158p from highway)

along rd S from Hicksville RR Xing

.1-.13 - folded Dbs

- - - " N80E, 76N - just N. ch.

Main Rd. Hicksville to South gap

0.0 - rr. Xing

.3 Dbs N65E, 26S

.4 " N55E, 30S

.73 " N50E, 30S

1.11 " N45E, 34SE

1.3 " N42E, 35SE

1.5 " N50E, 27SE - folded ?

3.3 " N55E, 35SE - dist.

- interval red Clinton + other floor

3.5 Wolf Cr. (Db between here + last)



May 26 - Mon.

Dirt road Xing RR due N of Hicksville 4 miles.  
Dbs N60 E, 12 S.

Amer. Hicksville Church - 2205 (=27.90) 8:30

outcrop Dbs. 1 mi. E of RR or pt 6 mi N of Sinter (on RR)

Dbs section along rd. SE of Bastian

0.0 - - - - - Bastian

.1 2235' N50 E, 13 SE 9:05

.23 2255' N40 E, 28 SE

.32 2295' N60 E, 32 SE 9:10

.40 2320' N55 E, 22 SE 9:15 - under Trans. line

.54 2365' N15 W, 14 E? 9:20 minor folds

.63 2395' N55 E, 11 E 8" to 1' bed hard gray  
m. with chert lens

.76 2430' N5 E, 11 E 9:30

.88 2460' N40 E, 13 SE 9:35

.95 2485' N12 E, 16 E 9:40

1.00 first switch back to R.

1.15 2530' N20 E, 12 E 9:45

1.25 2560' N8 E, 17 E 9:50

1.40 2600' N40 E, 8 SE -

1.60 2660' N45 E, 7 SE 9:55 - sh - some exceed 1'

1.83 2735' N15 E, 16 E 10 AM

1.99 2780' N30 E, 8 SE

2.18 2820' N65 E, 20 S 10:10 - take Route 612

to R (= Va.

Fire Trail 5002)

(see p. 6 for balance US 21)



Va. Fire Trail 5002 - to N60E from Barton -  
Bland Rd

0.15 Elev. 2755  $\pm$  10:20  
 .45 " 2680 N54E, 39SE -  
 .85 cross creek to R bank 10:30  
 .99 Elev. 2530 N70E, 29S in creek bank  
 1.5 " 2475 N82E, 12S 10:35 creek Xing down.  
 ahead - cross to R  
 bank - between creek  
 & Dingy line  
 1.7 " 2450 N-S, 16W 10:40 cross cr. to L bank at  
 far edge lumber camp  
 1.92 " 2425 N50W, 13S 10:50 cross cr. to R bank  
 2.1 " 2405 N55W, 13S 10:55 " cr. " L "  
 2.23 " " " R "  
 2.30 " 2400 N55W, 13S 11 AM on rd 50' sect.  $\pm$   
 2.50 " 2390 N15W, 10W 11:15 off " to L (on return) <sup>above</sup> cr.  
 3.31 " 2330 N55E, 16SE 11:10 cross cr. to L + turn back

Return to junction US 21 + 52 with St. Rd. 612 - here  
 Va. Four Ser Trail 5003 (= St. Rd. 207) also takes  
 off - follow it Northward

0.1 - Elev. 2895 N87E, 5S 12:10  
 0.13 - " 2905 N30E, 15E -  
 .25 " 2945 N15E, 13E 12:15  
 .35 " 2970 N50E, 11SE 12:20 - rd N30W + turn +  
 turn sharply R ahead  
 .45 " 3005 N12E, 10E 12:25  
 .60 " 3080 N15E, 13E 12:30  
 .70 " 3140 N20W, 12E 12:35  
 1.15 " 3290 N5W, 18E 12:40



124

1.44 Dhr. 3370

NSW, 18E. 12:45 - road followscrest - reddish gray  
ss rich in fossils- near top Dhr - note  
productids, large bivalves, etc

125

1.7 first gets rd still on crest.

1.75 Dhr. 3405

N25E, 10E 2:05 - red. ss. - looks like

pts. of Clinton!

- am N67E of Bastian Mill

2.2 " 3355 N24E, 15SE

2:15 - similar to last.

2.45 Dhr. 3375 N-S, 10E- gray + greenish gray  
heavy + thin ss.

2.6

- now N55E of Bastian Mill

126

2.85 " 3370 N18E, 12SE2:30 - hard gray ss with  
numerous molds crin. stems.3.05 " 3360 NSW, 14E 2:35 gray ss{ 3.14 am S88E of Hickmanth church  
S89E of Tazewell Rd forkDhr 3365 N5E, 14E 2:45 - gray ss.3.35 " 3350 N30E, 11SE 2:50 - good exp. - gray ss +  
sh - ss

3.5 curve to R

3.6 Dhr 3325 N40E, 15SE 3:55 on crest narrow

- thin ss + sh - ss

4.85 - rd to R - continue ahead

8.30 - rd ends on crest at turn around  
all Dhr - exp. not so good over better  
part

X

5



Returned to junction with US 21 + continued toward Blount

2.18 Elev 2910 3:45

2.25 " 2950 N10W, 4E 3:50

2.40 " 3000 N84E 4S —

2.48 " 3005

4 PM (Brush Mt. sign =

2826' here) - on

denude - Va. Fur Trail

No. 5006 taken at

E.P. here - Dr. Jost's

2.60 " 2980 N65E, SSE - marked strata

2.70 " 2960 E-W, 10S - W - 405

2.83 " 2940 N85E, 8S - 400 - prominent

2.9 " 6 small folds

2.95 " 2 " "

3.00 " 1 " "

Blount? to Hill a more than over fault  
into Knox. Center of Blount at 5.27

May 27 - Tuesday

Acres. Ruston bridge 2205 (= 2792 ft) 7:30

Bastrop - Blount section (cont.)

3.11 Elev 2760' N19E, 40SE 8:10 AM - sharp, broken fold -  
reading just to SE.

Heavy region that underlies  
black dense spherulitic

→ - heavy beds up to 2'  
gray patches - then  
shaly lag over bottom



3.15 Au. N40E, 84SE

3.2 - 3.4 Sh.

3.5 Sh. 2675' N75E, 21S

3.65 " 2645' N74E, 15S

sh. dist., locally vert.  
folded in this interval

825

- heavy gray, hard ss over 3' thick  
underlain by thinner, blocky,  
sandy sh.

3.75 " 2635' E-W, 8S

835

127

3.85 " 2600' N65E, 41SE

840

hard, gray ss. in level beds up  
to 2' - typ. Sh. below &  
above - coarse bed at  
top ss. - ss. exp. for 55'  
iron streak - cg. is 10"

3.98 " 2580' N85E, 10S

855

N5W, 8W

- just ahead - local only

4.05 " 2575' N84E, 9S

9AM

fine gray ss + sh ss = Des.

128

4.28 Price 2550' N86W, 11S

905

- hard gray ss. + softer cg.  
- this Price apparently

128a

4.57 " 2520' N50W, 22SW

9:15

close to Bland limit.

heavy layer hard gray ss  
with pebble bands &  
larger cg. - beds up to 2' 6"  
- sh. come in just ahead  
+ beds are dist. = Price

129

blackened, cherty, Knox exposed on creek 440 feet to  
SSW. Planer strike N50E + dip 32 SE, turning  
from this V up to 52° or more. Knox misc.  
fractured + shot with veins - exposed for  
distance 70' from above exp. - fault line  
about 165' from Sta. 129 + Carls is exp.  
220' beyond 129 - line in creek

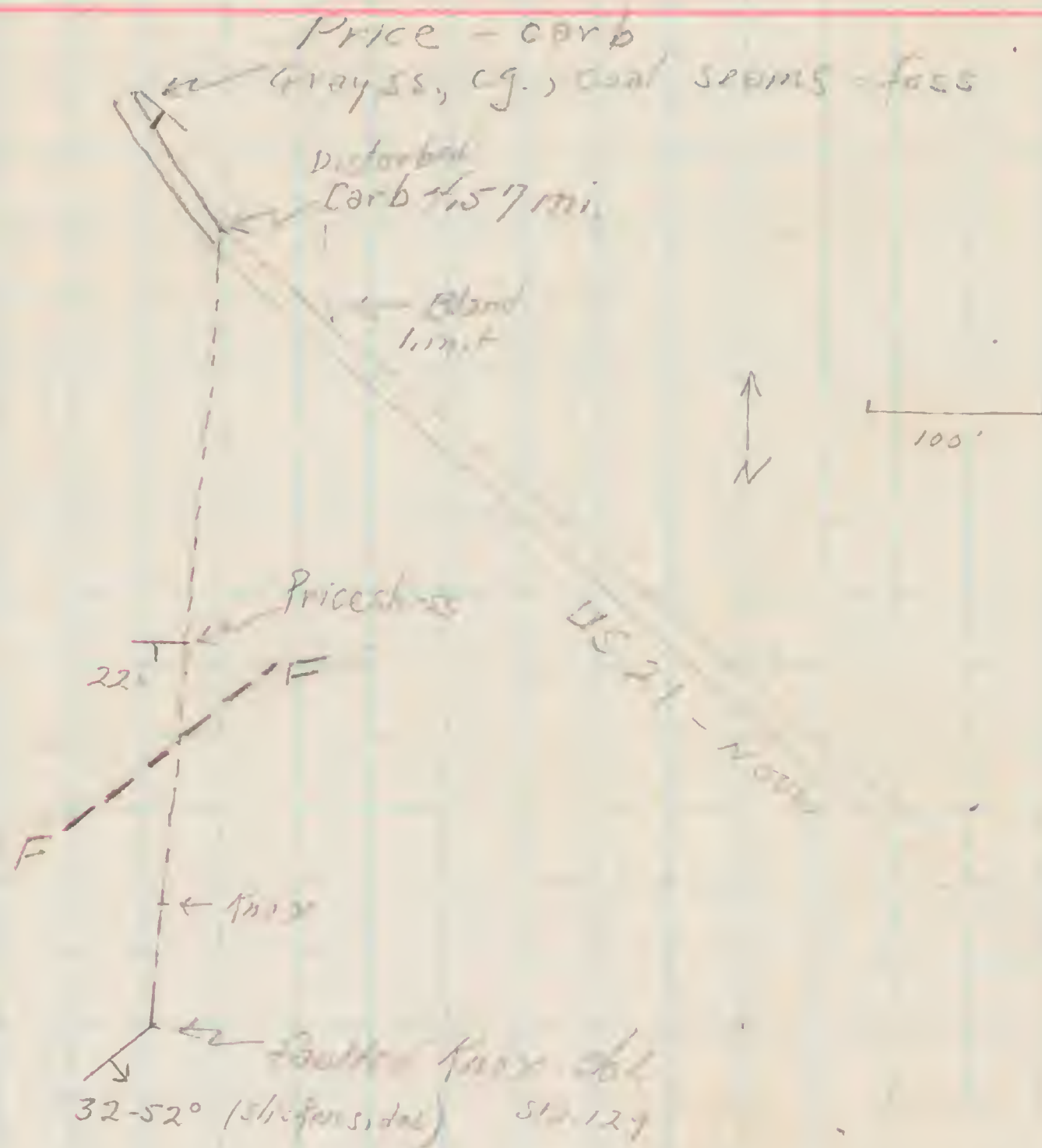
E-W, 22S

7



127a 4.05 - exp. in creek on rd - still Dev  
apparently - no coarse ss no  
coal, no eg - all very hard &  
blue. (reverse boundary on map  
& moving little to S to put thru  
outcrops in Dev)





130

4.9 2475' N75E, 22S 10:20 Knox dol - no foss seen  
 5.15 State Rd 42 to L  
 5.25 US 21 - 52° to State Rd 42 to R. 3450' 10:45

From crest of Brushy Mt. on US 21 a CCC line  
 (55006) truly, under 340 along ridge 7. Dev dipping SE  
 at 4.4 a fault ss with white gty  
 appears - This Price? - end of 5006 at 7.6  
 - turn R. on down valley  
 10.3 H.C. Creek at start of CCC Fire Trail  
 5010 - just SW of Poyah washer - came  
 down Laurel Creek (last 2.7 miles) all  
 Hermon - good section  
 10.77 CCC Rd to garden



P DA - Dbs on nose of Round Mt.

0 S15E N60W, 30N - black sh  
520W of tra on Tay rd - .22 from end.

31 " Bl. sh. badly crumpled

50 S28E (to W of Cr Bridge N15E, 26N Bl. sh

100 ~~#2~~ N40W, 26N " "

160 crumpled blow " "

218 N20W, 5N " "

281 crumpled " "

317 W. Cr. Br

.43 from end Tazewell Rd - turn R - NG.

1.65 "flat house"

2.00 White house opp first big gully

3.31 Ent. Camp Poland - 2nd big gully (with  
low dead pine at top reach creek  
opp. main camp grounds - have not  
done this gully

3.53 Lower Brown house

4.1 Upper " "

4.8 2nd White House (on R) - am opp 4th main  
gully

7.0 -

1, 2, R II #4.5 - pan., looking S15E to segment of Rd.  
Mt. capped by Don + Dbr - appears very  
even crested from this - dip in low  
to S - i.e. L to R.

8.15 = BM 2330

3, R II #6 at 8.9 mi. fold in Rd - @ 25'

9.0 School



1851

2.1



- 9.7 - BM 2441
- 10.51 Don. (Dbr. below along rd?)
- 131 10.6 Db - large blocks along road - from cut.  
 Rock very fine, mostly brachi, saw  
 no *Aspidoceras* 2595' - 350 pm  
 - altitude obscure
- 10.8 Clinton - very ? crop
- 11.05 - flat
- 132 12.40 2860 4:00 - Db buccina cemented with Fe  
N50E, 53NW on non buccinated Db.  
 - off map to W?
- 12.57 N55E, 34SE } Clinton red + gr sl.  
 N20E, 39SE - better } + light sh.  
 2915' at 4:30
- 12.93 = US BM 3005.6 = 3045 ft 435 -  
 Tazewell Co. Line
- 1.1 strike St Rd 61 + turn R
- 4.25 turn L " " 662
- 12.2 " R " 650
- 12.82 st. ahead on 85

May 28

Wed.

Returned to Nye Cove via East River Mr Rd. from  
 Bluefield

- 2.1 mi. below turn on creek on S side Don in exp.
- 2.33 Don about quarry; beds in low folds; Mn films
- 2.38 - around bend to R - Db below Don - Db  
 highly x-bedded - Mn films
- 2.85 into Db - haven't gone on long Db + 2nd Don



1894

4.19



3.19 - cross East Fork Cove Creek

set speed 0.0 at above creek crossing - now about edge map

.4 Don N75E, 80N

.43 Ton N73E, 78N - (150' beyond last) - some beds of

.49 Db. N73E, 83S - overlain by Don 78S,

- only about 20' Don present - then  
beyond which is Db #

Then Don - broken + ferrug + below it (15 p. beyond)

.5.2 - N35E, 43N - Db with black stamens

.69 Clinton N63E, 36N - heavy acid with greenish

.75 " N55E, 14N - gray gtytic sh.  
heavy layers.

.76 cross axis of low fold  
by on axis N15E, 12E - ~~Clinton~~ <sup>clinch</sup> greenish  
shaly beds in center of arch

.85 clinch in cr. bed N75E, 73N

1.00 x cr. to R bk

1.19 Knox in cr. N65E, 45S

1.28 turn L in clearing

1.50 US 61 Turn R - to edge H sheet.

0.0 Knox N65E, 60SE - Wedge map on US 61  
(this point .3 mi SW of pt. where bl crosses

Perry Branch) on map shows bed <sup>bluish</sup> white chert

2.5 Knox N55E, 60SE - long section along rd  
Perry Br to SW - black chert 7", also  
mudstone

4.5  
RI #748



1884

1  
5  
11



6 III #1

.3 weathering pencil & pit holes in Knox-Perry Br.  
.9 N70E, 53S same cherty zone in Knox  
1.59 Rd. 662 turn L to Nye Cove  
Knox - N70E, 58S in core Cr. 1/2 hour above  
bridge

78.9  
P III 2-4

2.00 Knox - giant ripple marks  $8\frac{1}{2}$ " across (7 in)  
N70E 60S

2.3 Knox N73E, 55S

2.72 " N70E, 61S

3.0 House of J. P. Neel - rd. to top Buckhorn where Mn. is  
reported; have done practically no excavation

3.35 Knox N70E, 60S

3.65 " N67E, 54S

4.40 " N70E, 58S

4.5 " with white chert

5.58 Stowersville

5.90 { Knox N68E, 41S - R. bank of creek  
200' to SE

14.9 Rocky Gap - Knox all way

North to Nye Cove from #61

.13 Knox N68E, 55S - in creek

.22 jog L + R - head N

.40 Knox - 45S ←

.50 cross core Cr to Lbk - red Sumatra - bank of rd  
- downstream 305' <sup>red lignite</sup> Sumatra in creek N72E, 75S

- " 75' more in Knox N65E, 45S ←

61 Church - (Sum. just below in rd gutter)

1.55 cross cr.

N70E  
85S



May 29 ~ Thurs.

Cove Creek Section

133

61' +  
Ton

across strike - N15W - 56' Tondoway exposed  
at an dip  $80 \pm^\circ$  - are covered intervals both sides  
coll. for. ls near base of above section - lith.  
types also incl. Small percentage of beds are  
very sandy & have been leached to porous ss.  
- colonial forms similar to those of Holly Brook  
occur well up in section but could not find  
good C. tondowayensis.

Don 26' 6" at dip of  $65^\circ = 23' \pm$   
& section obviously not complete

Don 26 1/2' exp. at dip  $73^\circ$  directly below

128'  
- w. bed  
Ton. 2,

24 " " 55° " " last  
21 1/2 } not exp. well - lowest 5' ±  
23 } certainly Tondoway  
20 } - av. dip possibly 55 deg.  
46 }

160 1/2 to be corr. for dip - &  
subtract 5' for Ton.

= 920' ±!

0-100' S43E  
100-300 S50E  
300-550 S45E  
550-600 S19E  
600-650 S15W  
650-750 S25E  
750-1050 S40E

Juniata - av. dip  
 $75^\circ$  - st. N72E







Start W on W. Fork Cove Cr at 1.50-50 mi

0.14 Dbs N40E, 72 NW } then rd. on map

0.5 " N65E, 62 NW

0.6 " N60E  $\phi$ , crushed-gravel rd.

0.7 " N35E 31 NW } variable  
N45E 35 NW }

0.75 cross trib. flow N to S

0.88 Dbs N70E, 45 NW - dist., var.

0.90 - rd. to R

1.00 Dbs N68E 40NW. - " , "

1.10 pass house on L

1.27 over trib.

1.46 " large trib. (now off the map)

1.47 rd. to R (keeps ahead)

2.00 over creek - R to L flow

2.28 " main creek to R bank

2.30 Db. - 25' face in sand quarry - N45E,  
22SE - varicolored -  $\frac{1}{2}$  iron Mn - shades  
of yellow + pink - white + black - very  
friable - has established small washing  
plant - car-belt - chain buckets -  
pool + stream water

2.45 - back across main stream to L bank

2.65 - "Novdy Lodge" on R.

2.79 - across to R bank

2.85 - " " L "

2.90 - old shade on R

2.99 - across to R

3.03 - " to L

3.27 - " " R

3.30 - " " L



3.40 - recurv to R.  
 3.48 - " " L  
 3.55 - " " R  
 3.66 Turn back - no more

June 2 Monday

Amer. Hicksville Ch 2205' (=27.67) 755 AM

Va. Fire Trail 5006 - creek Brushy Mt (near Barton) to SW.

.08 DB 2930 N75E, 24S 8<sup>10</sup>

.15 " folded

.30 " 3025 N70E, 10S 8<sup>15</sup>

.40 " locally  $\phi$

.50 " 3055 N45E, 11SE 8<sup>20</sup>

.70 " 3050 $\pm$  N15E, 18W 8<sup>30</sup>

.88 " 3040 E-W 23S —

.95 sharp turn R

1.03 " " L

1.08 DBS 3025 N82E, 19S 8<sup>40</sup> - soft light br. sandy shaler

1.30 " 3130 N75E, 15S 8<sup>45</sup> - br. + reddish br. sh.

134 1.62 " 3125 N73E, 25S 9<sup>05</sup> - reddish ss. + sandy sh. with fine - same zone as coll. on creek to NIE apparently

1.80 " N70E, 17S 91-gray, sh. + reddish ss.

1.88 " — on creek SIE of Barton Mill [?]

1.93 " 3120 N70E, 34S 9<sup>15</sup> - good 15' section

1.12 " gr. gray sandy sh. + reddish ss. - Dec

2.12 " 3050 N55E, 18SE 9<sup>20</sup> 15



135 [2.30 - Turn L off Fair trail  
[.03 m<sup>2</sup> 2995 N60E, 20SE good for 940  
- back to trail at 2.30

2.60 N55E, 31SE - for and so - Dev  
2.80 D<sup>2</sup> 3140 N10E, 11E 9:50 - med. grained gray

2.95 N30E, 21E - sh. - hard + brownish  
sh. so - probably Dev  
- same as - even closer  
- pebbly - Dev

3.00 back in reddish for  
Dev

3.20 for Dev.

3.48 Dev 3120 N66E, 15S 10:05 - reddish sh. - m -  
for Dev.

136 3.88 " 3150 N25E, 23E 10:15 Reddish Dev

4.21 " 3085 N62E, 21SE 10:35 Green sh. (non put)  
- highly for. so. - shyn.  
brack - large pebbly.  
- smaller than last so  
that appear barren

137 4.31 " - same from - with for - same altitude +  
4.41 Price 3035 N85E, 23S 10:50 Price 85 + fog

- very fresh - brown  
+ yellow

4.55 Price N65E, 19S 11:05 Price 85 - white + yellow

4.70 " 2970 N55E, 33SE 11:15 - sandy sh. - road  
ahead - SE

4.88 Price 2930 N55E  $\phi$  11:25 Rd. immediately SE

4.92 " 2920 N55E, 34 11:30 Rd. - ~~not~~ SE  
- note like Dev from last  
ground so sh. pebbly 16

Price on corner of this stop is



5.6 - have been wanting almost due east  
+ now appear to be well up in Carb.  
N70E, 20 S - ahead = SE

6.1 - over divide 3060' 11:35 - a fire tower  
but due S straight ahead

6.15 rd in from left at Acate V

7.6 end of fire trail

10.35 - H.C. creek above Boyd washer

{ 0.0 - return up Lander on Trail 1010

0.05 DBS 2370 N45E, 22SE 12:30

0.15 " " " , 26 " - at turn to R

0.50 " N68E, 37 " green sh.

0.62 " N50E, 50 " thin sh. + ss

0.68 " - fold

1.30 " 2480' N85E, 14S 12:50 - heavy ss. + sh - m  
- Dev. breccia  
- 10' above creek

1.35 turn R

1.40 X cr. to R bank - Rd here S. 13W - m  
creek above Xing N55E, 15 SE = cgs

1.5 turn 1/2 L

1.54 Dr. N75E, 21 S - thin sh - pencil  
weather - sh @ 10'

1.60 creek divides, take L

1.79 X cr. to L bank - Dev N65W, 15SW

2.15 Dev. N56E, 38SE hard green ss, lam.,  
one bed cg.

2.20 Dr. N50E, 8/NW - creek & Rd SE - NW

2.30 " N65E, 37 SE - base of reddish Dev 17

10.  
R III, #5



in just above heavy ground  
as here - judging of  
flint in cut

11.11.16

2.43 - 2 creek to R lte

2.58 - 2.65 - here - folded + faulted - locally  
on end

2.7 Db N55E, 33SE

2.78 x to L lte - Trail 5006 from on L

SE side Round Mt 1 3/4 mi NE of Linton

subst pt. on main Sinter Rd  
lying 1.7 mi SW of NE end  
of the pit across H.C. Creek

P. DA

o SIDE Db. N50E, 33SE - 15' cliff

along L wall of gully

2520 (thunder storm  
coming up - typical - porous  
x-bedded, coarse, firing  
± friable - heavy layer  
- start pace down gully

50 SE - still in gully

217 N60E - along stream bank

340 S65E - lv. " " after King gully

485 S24E - in open field

773 — RR - turn R - 2350' at S. side  
(the creek on left bank)

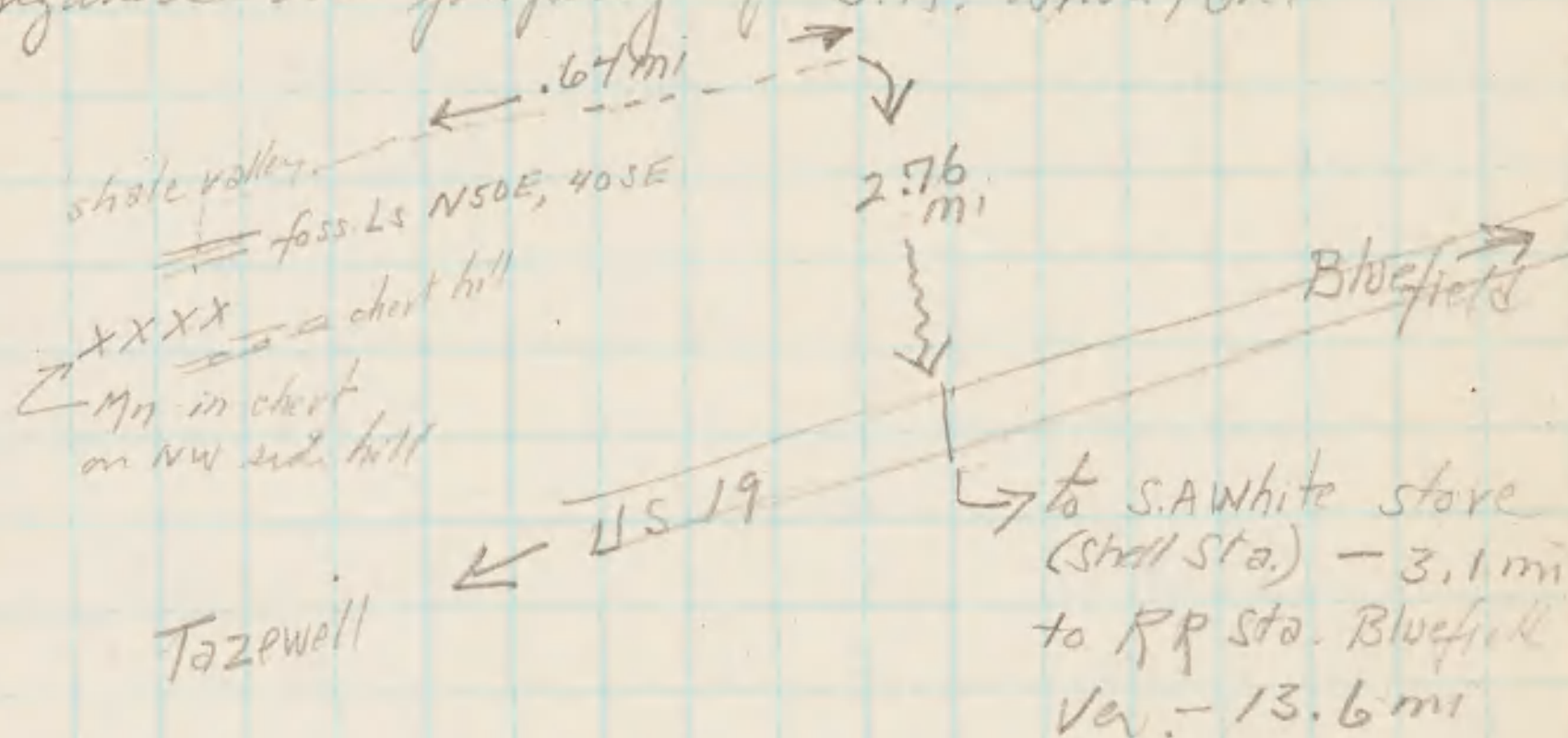
789 p<sup>SW</sup> along RR to pt. where old sea beach  
along shore NE of Boyd's water

Amor 2260 at 4:40 Newcastle



June 3 ~ Tuesday

Witt Harman to examine occurrence of Manganese on property of S.A. White, Jr.



- above loc. said to be 1 mi. ± W of Hunt prop. + 2-3 mi. W. of Tiptop - probably close to W. edge Barker Garden skat. Mn on ridge to SE of Stony Ridge - the ridge evidently held up by heavy chert - no Mn. prospecting has been done but, it is claimed, baryte was produced to SE. - then are forming as border on ridge but all Mn. seems to be in chert breccia - owner claims considerable lateral extension of Mn. chert - has no plan for development.

[turned down Harman's plan to visit Geo. C. Peery re his Mn. land - pending some definite info.]  
To Mc Cove.

138

0.0 mi. SE side E.R.M. N43E, 30SE Don chert + ss. - former with Mn - the Don of ss. + chert interbedded - Mn replacement full center in chert - chert bedding planes wobbly but not disturbed - mined below this just in Don - have in Don in and quite - some



all right

$$\begin{array}{r} 1275 \\ 6 \\ \hline 1650 \\ 1275 \\ \hline 2925 \end{array}$$

$$\begin{array}{r} 1276 \\ 1276 \\ \hline 2552 \end{array}$$

$$\begin{array}{r} 1276 \\ 1276 \\ \hline 2552 \end{array}$$

$$\begin{array}{r} 166 \\ 136 \\ \hline 302 \end{array}$$

$$\begin{array}{r} 1276 \\ 1276 \\ \hline 2552 \end{array}$$



- various - general strike E-W,  $60 \pm 5$
- .08 " - N20W, high to low Dbr
- .18 big Don quarry - 2 low folds on low  
20' high - dip on limb up  
to  $25^\circ$
- .21 Dbr under Don of last
- .32 still Dbr - sand pit here
- .42 covered from view
- .50 Dbr - at farm R - about  $532 \text{ E}$   
N35W,  $35 \text{ Sd}$  (slumps? = unstable) - some  
x-bedded or with minor strain
- .66+ Dbr - N35W,  $28 \text{ S}$  - from fault  
beyond - some on over Dbr OK  
- extent here for Don =  $55 \times 2.76 @ 30^\circ \pm$
- .7. N65E,  $70 \text{ SE}$  - Dbr
- .87 Dbr - folds
- 1.05 Rdr R (SL) - a creek 20' ahead - low  
fah of low Cr
- 1.21 sand & low clay - slumps?
- 1.33 <sup>180</sup>  
~~60 p (22.76)~~ ahead the pt - in fact  
Dbr while the outcrop continued, to 37p.  
0-35 - Dbr; 35-65 - covered - Dbr N30W,  $35 \text{ S}$
- 1.5 Don - N75E,  $80 \text{ N}$
- 1.53 Ton - N73E,  $78 \text{ N}$  ~~to 6~~
- 1.55 Dbr - " 53S
- 1.6 Don - " 78S
- 1.61 Dbr —
- 1.64+ Don —
- 1.66 Dbr —



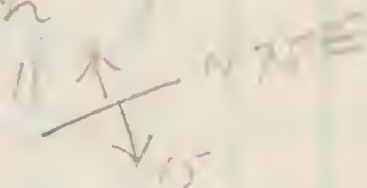




N60E, 25NW - ss. makes  
 cascade in creek - probably  
 Clinch - then below junction  
 of creek from W - ~~could be Clinch~~  
 - gray gneiss - 2550' unconform  
 - then drop 75 p. (x 2.5) below  
 creek junction - 1760'  
 rd. here N55E of fallline  
 and 50' above fallline

1.88 - axis of fold - Clinch

~~all Clinch~~



1.99 - base of Clinch

2.11 - Bridge

June 4 - Wed

Arrive Hicksville at 2205 (H-2748735)

Garden Wall to pt. 1 mi. SSW Sutor

Stark CCC rd to Garden at var 5.58  
- head S.

$P = 2.5$

P.	D.A.	Elev.	Time	Remarks
0	SWE	3695	10:20	- Sutor
70	S40E			- on old road
100	S30E			
200	E			- still on Sutor
236	S70E			
365	S45E	3844	10:35	- " "
485	S	3870	10:45	- on road 2



$$\begin{array}{r}
 1258 \\
 \times 20 \\
 \hline
 25160 \\
 25160 \\
 \hline
 31250
 \end{array}$$

4115

$$\begin{array}{r}
 1470 \\
 \times 28 \\
 \hline
 11760 \\
 2940 \\
 \hline
 41160 \\
 \times 20 \\
 \hline
 82320 \\
 \hline
 111150
 \end{array}$$



834 S 3920 18:55 reddish tan ss. +

clinch blocks;  
crest fairly narrow

<sup>982</sup>  
~~1042~~ <sup>300</sup> 3940' 11<sup>05</sup> N55W, 13E 2-chops turn

on crest - on

large block Clinch

<sup>1370</sup>  
~~1470~~ <sup>300</sup> 3970' 11<sup>25</sup> —

small rounded red

ss. - some - here -

but block becoming abundant

<sup>1730</sup>  
~~1830~~ 11 4020' 11<sup>45</sup>

- Clinch here but it's

then distinct red sand

crest of Clinch - on Jan.

<sup>1926</sup>  
~~2026~~ <sup>300</sup> 4130' 11:00

N25W, 21NE

[<sup>1961</sup>  
~~2061~~ p. to highest pt 4130']

P=2.5

0 S65E

485 11 3840' 12<sup>20</sup> - Clinch N17E, 18E Rain

737 red ss. floor

1100 E

<sup>1263</sup> <sup>SG 1E</sup> 3345' 1:00 Horn Clinton

1508 S to gully bottom

1770 gully bottom

2680 S - 2760 turn N65E

3047 turn N15W down to gully

are on west side of fence

at DB 54



5525E

3086 turn back down gully to 565E ±  
 3881 - edge of natural field - here

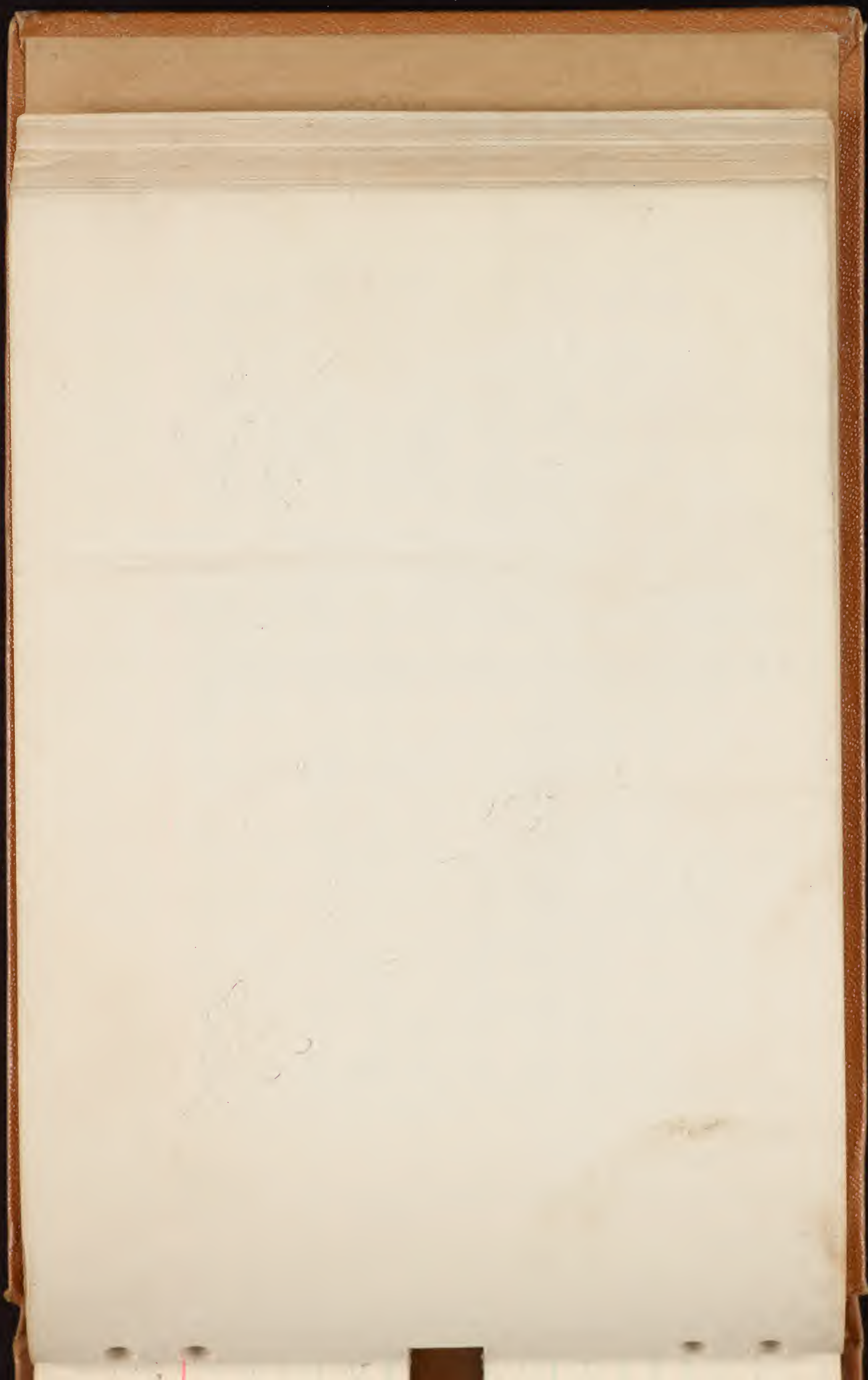
4060 to pt. 40 p. below car (car 1.05  
 below center) 2430' (HL)

11 AM	- 2410
1130	2420
12	2420
1230	2425
1 PM	2400
130	2400
200	2410
2430	2440

June 6 - Fri.  
 Arrs. Northville church 2205 (-27.8' H) 8<sup>10</sup> AM

Middle gully on Noss - start on Benton Rd. 3 mi from  
 O N 28W 3720 8<sup>45</sup> AM (-3745 at 3<sup>25</sup>  
 400 " 3655 9<sup>00</sup> slope, gully (upward) - Benton  
 floor, no outcrop - white  
 buff ss - not typ. red  
 700 " 3545 9<sup>10</sup> Clinton floor only + not red that  
 gully not distinct - some very  
 ferrug but not typ. red  
 750 N 70W - gully to L 2  
 780 N 28W - in poorly dev gully  
 900 " 3420 9<sup>20</sup> - Clinton red floor - even  
 almost eq. ss with red  
 clay films







722 NSW  
 1005 N 3375 9:40 - first floor water  
 1036 " 3350 9:50 N50W = = @ - # crop  
 Clinton - hard white gypsiferous  
 1080 " 3355 10:00 gray gypsiferous ss in beds up  
 to 11" thick - this could pass  
 for Clinch - but probably in Clinton  
 - good crop ± @  
 1205 N20W 3265 10:10 - slope much steeper ahead  
 139 1243 N10W 3230 10:20 - no crop but certainly am on  
 dip slope - much loam ss for  
 - some gypsiferous ss probably in  
 Clinch - but not abundant  
 looks like Clinch  
 1500 N5E 2990 10:40 gully filled with carbonate ss  
 (red) - probably still above  
 point where big (Clinch) fault  
 is -  
 Big bar from S to E - much  
 higher  
 1556 N10W 2920 11:00 ss upper corner in the  
 left - entering "gorge" ?  
N15E 35NW - this is mod  
 white frath ss - more like  
 Clinch than Clinch  
 1653 " 2780 11:25 Big slab Arthropycus  
 in partly, moderately  
 friable gray ss  
 1830 " 2630 11:55 N70W 42N = Red Clinton

probably  
 Clinch



P=2.7

1947 " 2530 12:10 - red Clinton float mostly  
- slope has flattened

1972 N30W

1980 sharp drops ahead -

- 1950 - 1955 red + green ss + clay  
looks like Sumner but may  
be Clinton 12:15 - 2500' -  
maybe by slide

2100 N35W 2405' 12:25

2148 N20W

- first Db float  
" Don "

2168

2361 N60W 235' 12:40

2436 N55E 2280' 12:45 Dinky bed - creek X

2757 N40E

- cross bridge

2440 N20E

- cross 8th Trl - very close  
to Wolf Cr - about 15' higher  
X Wolf Cr on bridge

2515 N75W

2600 N12W

3120 (on 3020) Rd. at BME S22 E -

bar from in gully.  
at cor 120 - 2305'

Foch 915 - 2260

1015 2275

1115 2280

1215 2300

120 2305



- Trans - line - Bare Tower Rd. to Tanager Rd.  
300 p. - heavy Den float to here - in  
gully at this pt. in Db - float obs  
2565' at 3:20

538 p. 2540 " 3:30 - heavy Den float here  
to last here big mass  
Db probably a crop but  
altitude obscure - N 70 W, 13 N?

555 p. 2525' + 3:40 Db in bottom small gully  
N 52 W, 11 NE - at road  
- with Pipilo - to pt.

615 - at tower - back on chert  
float

695 Db - float?

813 2735 3:45 - bottom gully - big mass  
Db here - little Den float below  
here + last - but mostly Db  
855 - tower - all Db - sharp drop  
abund

993 2895' 3:40 all Db - tower here  
1222 2280 4:00 in Doby bed - all Db

June 7 - Sat

Amers - Boulder Bridge 2180 (= 27.50 ft) 8'0

Stouensville to S 15 E

P.	DA	Elev	Time
0	S 35 E	2275	9:30
13	"		

Knox N 55 E, 44 SE

in L bank Clear Fork

photo crest  
= 1.8







150	S35E	2280	9:45	Knox in dray S of house <u>N60E, 47SE</u>
375	S70E	2345	9:50	Knox <u>N63E, 47SE</u> - lot with seams + nodules of white chert - $\frac{1}{2}$ " to 5" thick
485	S35E			
590	S75E	2410	10:00	Knox <u>N63E, 50SE</u> - gray lot with large amounts - gray chert somewhat irregularly distributed
642	S30E			gate
860				iron-cherty Knox ls
935	"	2515	10:35	Blue ls with black chert <u>N62E, 46SE</u> - covered with + brown other fossils
995	"	2550	10:45	- same as last - covered interior ahead
1106	"	2600	10:55	not black cherty ls - covered ahead
1126	"	2610	11:00	fine thin, fine ls - no chert <u>N65E, 44SE</u>
1143	"	2630	11:05	end of outcrop - covered ahead
1400	S60E	2755	11:20	Judging I feel we are now inside Eden-Marysville - (Max not up creek)
1566	S15E	2845	11:30	apparently still Eden-Mary + rd
1712	"	2920	11:40	Eden-Mary sh, <u>N70E, 45SE</u>
1782	S20W			"



1830 S10E 3015 11:50 -  $\pm$  top Eden May - edge  
of woods

1910 S30E steep gully -

2010 S25E

2065 " 3220 12:05

2122 S10E 3290 12:15 Jun. N75E, 44SE  
red ss

2185 "  $\pm$  3400 12:25 Still on Jun red ss  
" " " " "

2205 " 3445 12:30 { N70E, 41SE

2250 " 3460 12:35 Jun-Clinton contact  
about here

2268 " 3465 " Big cup Clinch  
N70E, 43SE

2280 3515 12:45 Top ridge Clinch

on 300? 0 S15E " " " " "

200 " 3270 12:55 - perfect dip slope on Clinch

636 S40W 3020 1:05 - gently - shallow  
Red Clinton - all Clinch float - low  
flat appears of steep exp. Clinch  
dip 280 $\pm$

700 S

1000 SW

1200 S20W

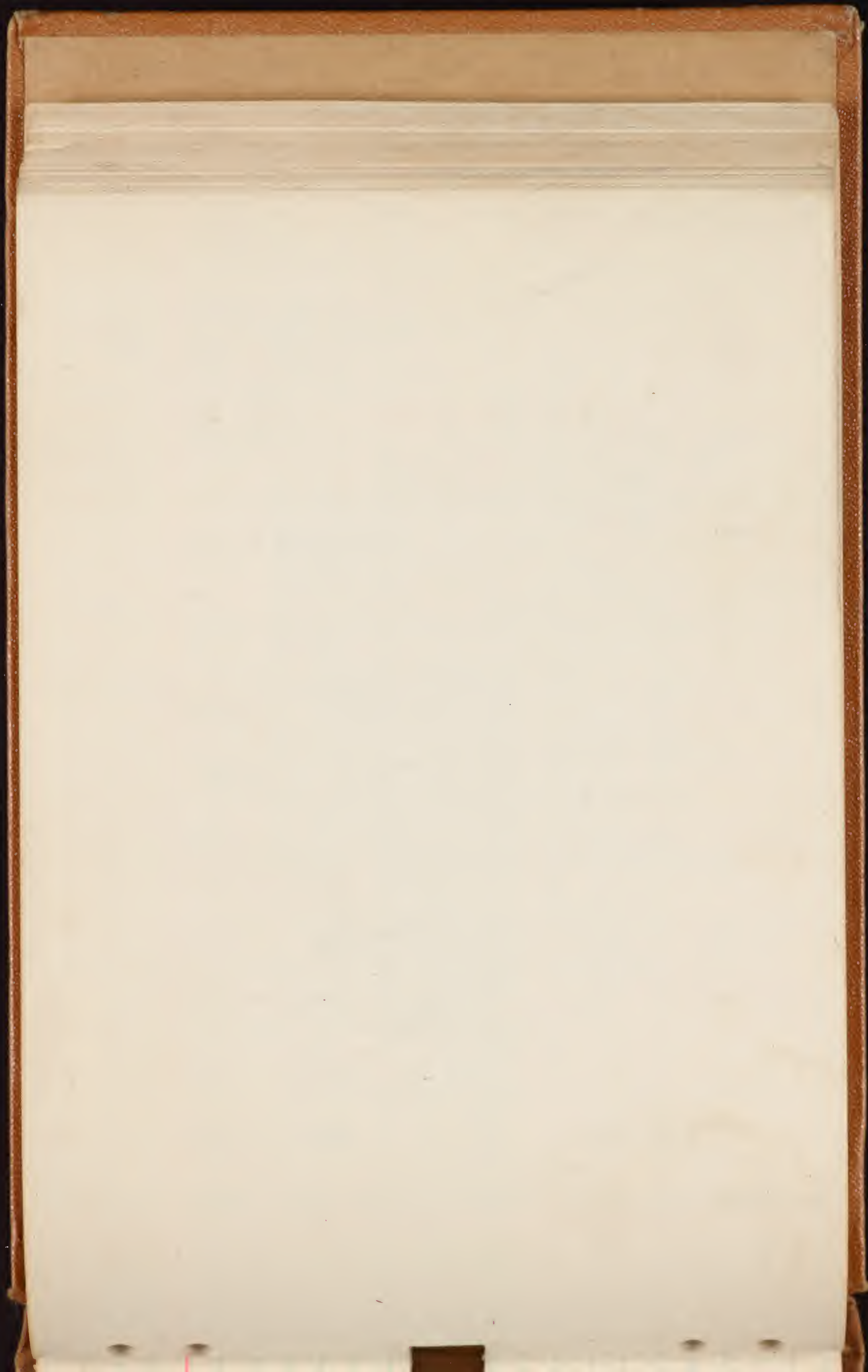
1300 SSE

1725 S25W 2620 1:45 Clinton & Clinch  
float only & thin

1825 S

1835 " 2585 1:50 Db + Dbs float 28







1929 S15E

2020 S

2200 S15E

2740 —

Obs. on rd at point where Wolf Creek  
comes close S15E of Stonewall

2:10 2365'

aner. checked in 2:45 2530' = B.M. 2443

45 N70E, 50N - 2460' 2:50

140

" 10' above creek at pt. 455' below  
with Hemp Patch Br. - in L bank  
Wolf Cr. - Tondurey - note white  
sandy layer from 1' zone at  
base of exposed section.

N65W, 40N - some Db in bank  
above Ton at upstream end of  
outcrop - at this high I can get  
under Dan exp. above road -  
further between here + Rd Mt?  
31' dr. exp. - this = upper half of  
frie.

Obs N55E, 25SE in creek - below  
last - by section. Thin black sh  
- loc S25W of House - crop in bend of  
creek at top of L in Wolf



June 9 Mon

Amers. Hecksville Ch. 2205 (27.71) 9<sup>45</sup>

Burkes Garden - CCC Rd

CCC Rd. 2.7 - 2.9 = Db

5.5 - crest - Juniata - 3650' <sup>10<sup>20</sup></sup> - any. odd Rd

141

N70W, 18N - Juniata <sup>yellow</sup> red ss. on Rd - 40 p  
(x 2.7') from divide - some glauconite in  
yellow ss. - red ss. with lighter + greenish  
blotches

.08 end Juniata

.11 Clinch N84W, 26N

.21 " E-W, 17N - hill below rd. here  
appear steeper than dips

.40 " N60W, 20N

.48 re-entrant - Clinch on both heads

.53 Clinch  $\pm \oplus$  = N70W 2N

.62 in re-entrant - Clinton probably begun here

N78E, 18N - then a reddish brown ss

.78 N55W, 14N - heavy ss, probably Clinton but could  
be placed in Clinch - fracture &  
beds stained red - red Clinton floor  
on crop

142 .81 N88W, 33N - Red Clinton - 3500' - 11<sup>20</sup> showing

1.59 - path to Grapefield

2.18 Db floor

2.25 Clinton in place near lead drain

2.43 Big block? Db just above rd here

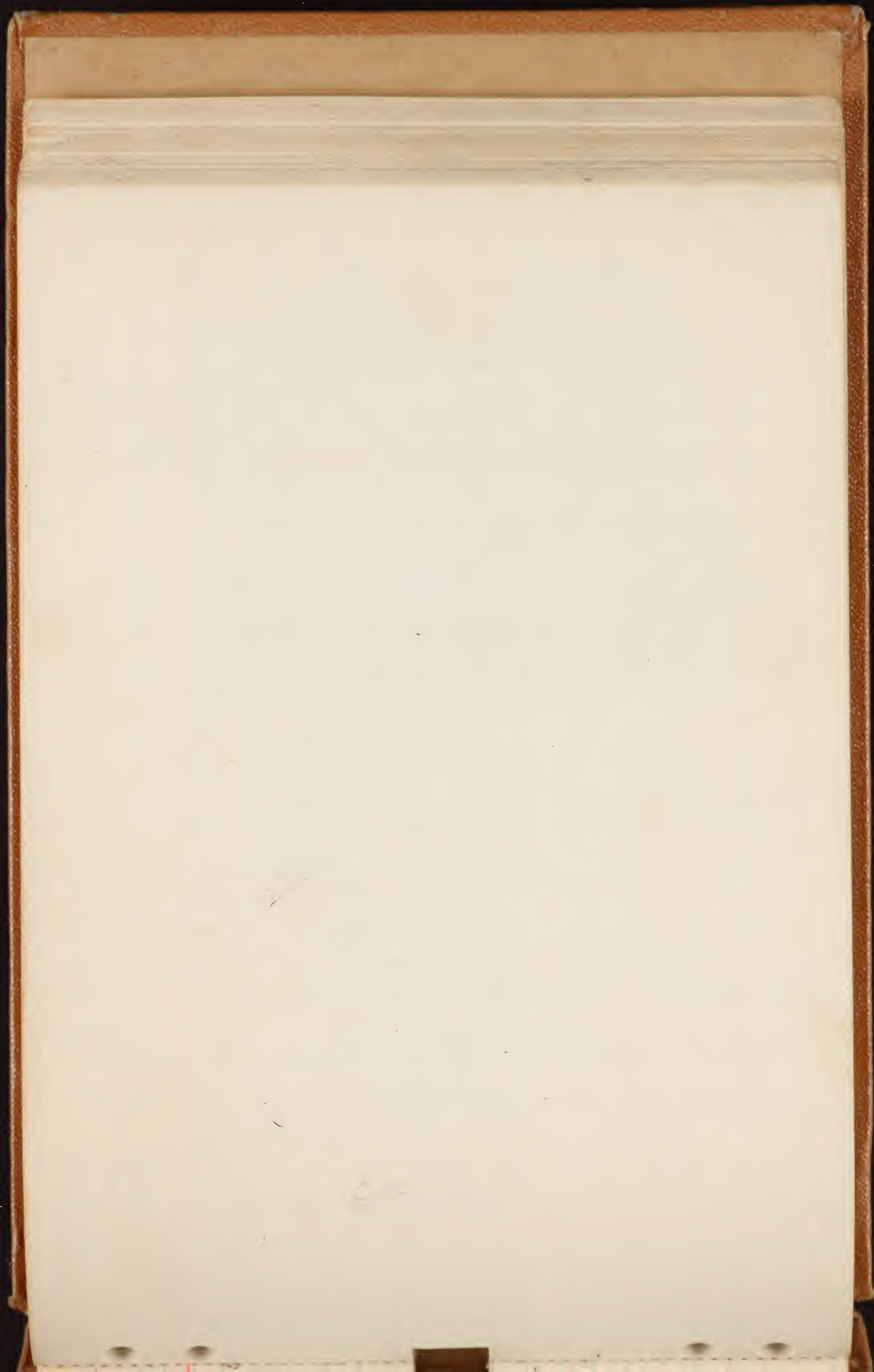
2.48 re-entrant in Clinton in place

2.53 Db pits - upper boundary on rd

- maximum pit above rd + north Dr

- Then place where Clinton folded down 30







float on up ridge - Dr man should be  
tried to remnant on creek + little meaning  
attached to unround dip + at. - resistant  
Clinton ss. below - go over whole m. end  
without variation but Dr. sitting on  
Tan clay has slumped badly  
2.70 - end Dr - Clinton in re-entrance

June 10 - Tues.

Amers. Hedgesville ch 2205' (= 27624) 7:40

0.0 - Green valley ch

1.0 - Greenfield P.O.

1.72 turn L in Kidd lane - Shott Prospect

Dbs N50E, 67NW in creek in front  
of Kidd house (close to car Dr  
nearly feet) - N75E, 3±S = 2370'

Schott Prospect

W.W. McNeal + John Stamper got  
lease 2 yrs ago + did some work  
Herbert Kidd. to get 10% of gross - none  
ever shipped - fell out on terms

Dbs N70E, 52S-562E of Kidd house <sup>2455'</sup> ~~2420'~~

2830

7:15

2990 9:35 rain - Dr. no dip +

at - much iron - main pit - no  
work here since last war - no

one ever shipped from any Kidd  
properties - 52-9E of H. H. Kidd  
house (uncle) - on N side W. of Cr

- clay -

31

143

144



144

K M Kidd (brother to Herbert) has  
min prospects - alone well

2750 <sup>N 10 AM ±</sup>

~~2700~~ - see pit - down 20' - Dr  
- see clay sample - good piece  
min ore (sple) + found acc  
Kidd in ledge in near thickness  
of hand - are 539 W of Shepfield  
School - clay + ss. from down  
pit in ~~spl~~ rock

- 0.0 - Turn at Bm in field
- 0.1 Kidd (Unch) house
- 0.2 House (close to rd)
- 0.51 2441 Bm - rd to L
- 0.7 Kidd house
- 1.4 cross Wolf cr. below Shepfield School

June 14 - Saturday

aner. Hickman Ch. - 2205 (= 27.63 H.) 8<sup>10</sup>

Up little gully lying SW Green Valley Church -  
- E to big gully - up to 5. - some Dr. but  
nothing more till grayfull trail of Dr - Don  
contact - up trail to Clinton above & - cut N  
down gully to Clinton in place

P.	DA.	Elev.	Time	showing intervals
0	N30W	2760	10 AM	Clinton, hard gray ss <u>N68E, 31 NW</u>
45	NSE			
85	N30E			
200	NSE			
340	N10E	2580	10:20	



N40W  
535 ± V 2420 10:35

Black shale  
N65E, 35NW - no  
crisp between Dls +  
Clinton - neither Dls  
nor Dls floor  
prominent -

673 N

700 N20E

950 N30W

1100 N10E

1280

cut from R - Red hill  
to L

1465 N25E 2330 11:00

Dls on and in creek N50E  
near

1555 N15E

Dls - flattened beds in  
low folds

1675

N70E, 31S - Dls -  
creek

1726

Rd

1810

bridge over RR

0.0 - BM at Rt to R - toward Dls in top

0.38 - N55E, 24SE - Dls on creek

- directly in front of Dls house (on  
in L bank)

2.14 - from R - heavy cgl. marked Clinton  
in place in L bank (Dls Cr ± ⊕)  
(above Dls - let me know Dls - 2.98



June 11 - Wednesday

Guild Conference on Burke's Garden  
Area called by Byron Cooper  
In attendance -

J. Bridge - U.S. G.S.

G.A. Cooper - U.S. N.M.

Arthur Bevan

Charles Buttrick } Va. G.S.

Ray Edmondson

DeWitt - asst. to Buttrick

Wright - " & Byron Cooper

Stop #1 - Section lower "Clifford" fm.  
exposed in gully .4 mi. SW of  
Witten Mill Church (go thru  
culvert under RR - from US 19)  
good exp. basal clastic  
dark gray sh., blocky chert +  
pink calcarenite, etc. [see  
typed memo on section &  
see location as marked  
on mounted copy of Burke's  
Garden sheet]

#2 Lophospira beds on US 19 -  
excellent collecting - many  
gastropods

#3 To see upper (2nd) Vaughanite  
(calcarenite) on US 19

#4 To see 3rd Vaughanite on US 19

#5 Peery Quarry in North Tazewell  
Lophospira zone in quarry 34



+ higher zones are in nearby RR cut.  
[stop #5a] Bullets taken in to general  
section in N. Taywell near  
Taywell Farm [Bureau]

#6 Nidulites zone <sup>etc</sup> - about 3 mi  
SSW of Western Mill Church  
(see marked sheet)

#7 - near #6 (see map) - fossil  
nodular bed to 3rd calcitrypt

— lunch —

#8 Rd to Pisgah - upper part  
- red tongue, fucoid bed, etc.

#9 - Pounding Mill = type  
section of Clifford fm - good  
exp. basal cluster + other  
zone

#10 across Pounding Mill Branch  
to see upper part of section  
to + above Camarocladia  
(fucoid) bed

#11 one mile east of Claypool  
Hill = Sowerbyella zone

#12 Murella beds + "Topographic  
map bed" near Claypool Hill

#13 Indian Creek - nodular  
bed + basal Moccasin - on  
end

#14 - 2 1/2 mi. SW of Taywell - Russell  
co. line on US 19



#15 -  $1\frac{3}{4}$  mi S of Wardell =  
Wardell fm. - *Receptaculites*, etc  
(poor)

June 12 - Thursday

Stop #1 + Drive West of Sillescu place  
in Thompson Valley - 100' south of  
old quarry in bull pasture

#2 Section due south of Ball's Knob  
on Liberty TVA spur - section up  
to *Scleropora* beds above *Vaughan*

#3 Plum Creek -  $5\frac{1}{8}$  mile south  
of Thompson Valley store - *Rhycolotremia*  
beds, etc. - Lebanon

— lunch —

#4 Burkes Garden - next to back  
gate road on SW end

#5 close to back - nodular bed of  
Poor Farm near Taywell

#7 Cox Branch section - thick  
*Vaughan* - fossil change?

{ #6  $\frac{1}{2}$  mile north of Sam Hoge farm  
= *Dimorphia* beds, etc



June 16 - Mon.

Arr. at BM near Grapefield 2330 (27.50)  
9:20

- Dls N65E, 51NW - along road  
between fold in shale pit & Grapefield Sch.

- Dls N50W, 10SW - imm. below rd. & below  
Don in rd.

- Clinton N70E, 24S on rd. 16 mi W. of  
Hemp Patch Br.

- " N80W, 16S - Hemp Patch Br. <sup>100 P.</sup> above Rd. ex.

- Dls - "Women's Trace" E-W ±, 135 - 2700  
2680'  
11:40 - Don foot short distance  
below here - Dls foot well up  
from rd.

- <sup>2850</sup>  
~~2830~~ at 12:10 - Ton Z - top of iron?  
creek flows S 35E below here - all Clinton  
foot here - some with ostracodes - old  
shd rd. in L bank creek - swampy  
ground upstream

- pass over rare Don foot & onto  
heavy Dls foot - Aspidoceras  
at <sup>3090</sup>  
~~3065~~ 12:30

<sup>3175</sup>  
~~3150~~ at 12:40 = heavy mass. ferrug.  
Dls with conoid striae, etc.







~~3383~~  
~~3305~~ - 12,50 - top ferrug Db flatiron  
 massive knob due S 30 W  
 Db appear to be N 20 W, 16 W but  
 in  $\Sigma$   
 N 18 E 16 E = slugs partly - great  
 mass Clinton on crest at 3065  
 - 1220 - have seen no Don yet -  
 from top of iron descended S 30 W  
 $\pm$  + no continue -  
 2850  
~~2820~~ - 1230 first Don floor - are  
 no longer a ditch - high gr.  
 to R  
 2615  
~~2575~~ - on rd 1:50 .87 mi W. H.H. Kidd

\* 2443  
~~2400~~ = BM 2443 at 2:10 - near Wolf Creek  
 close to H. Kidd house

0.0 = H. H. Kidd - on rd  
 0.42 = Top clay under Db  
 0.45 = Heavy Pebbly OBr  
 0.87 = end above bar  
 1.21 - all Clinton up draw to R - no good crop  
 1.38 - draw to R - mostly Clinton floor but  
 small amt Db - coarse ferrug ss.  
 1.64 - Rd to Clinton above river - of last Sub.  
 2.20 - ~~Clinton~~ - mt hill - dissected &  
 unconsolidated with Fe & Mn - no  
 crop around above - only  
 so. + cg heavy floor + mud Don floor  
 2.72 = Tazewell Co. Line



Up draw to S at pt. 4 mi NE Cove Cr. on  
highway lat

N 75 E 51 S - dol. joint wealth (grows)

in gully above house, 4 ft

NE Cove Cr. - Knox -

some lenticular masses

white chert - 2510' - 4:30

N 80 E 56 S - black cherty ls. & thin bedded

ls. & ls. - 2575' - 4:25

June 17 - Tues - shower

over on Rd near Grapefield - at 1300

2330 (= 27.57 H) 9 AM

- on valley E. elev 2550 - 9<sup>00</sup> - heavy layers of  
clay from bluff on E bank + shows  
chert syncline which dips on N-S +  
- here on upstream side dips up to 15°  
to east, downstream up to 20° - loc. 7 had S. 2?

- 600 up to N 8 E 19 W - in R bank - heavy  
red gravel - even top exp. affected by slump in  
the stage valley? - is up to 18" - shows suggestion  
of ripple marks

climbed R bank while to 2635<sup>(1000)</sup> at pt.  
just below abandoned lbr camp - only on  
top floor - and Dr. a Don

- when on down - dark bed, even tubs 38



from 1400m foot + almost arrived, road  
edge cleared field - across then to  
water strip woods in which there is  
much small Don along road - out at  
pt. 541 W of Don crop on hill on  
main rd - 2510' 10:35

- Top of chest hill at <sup>2650</sup>~~2655~~ - 10:50  
- pt. 541 W of house 2 mi. W Humpy  
Patch Br.

- Don - heavy forest continues at pt. 333 W  
of Humpy Patch Br. house + at edge woods  
- on sand gully <sup>2555</sup>~~2560~~ 11:15

- 2485 = sum. of BM 2498 - 11:40 AM

11:43 - car park

11:55 turn off of Port St.

0.0 - Taywell Co. house

0.5 - Do reversal

1.05 to Clinton Loc. of St.

1.25 opp high hill - across cr.

1.72 = BM 2598

June 18 - - Wed.

Arr. Western Lodge 2180 (= 27.57) NAM

Donahoe

("Crockett") prospect - up to 3180 11:00

- with exception of one piece of 40



Dr. - saw nothing but Clinton (+Clerk?)  
on way up. - scattered sandy  
plates of Mn ore - some certainly  
in pink + yellow fine speckled  
Clinton ss.

145

first owner - Crockett - 20 yrs ago  
- Leare + McVety proved ownership  
to land + stopped work - reported  
to have shipped car of Mn -  
L + McV. did no work - in 1927 ±  
bought by Va. H. & C. - in Clinton  
- much iron - 23-24% Mn. +  
more iron (35-40%?) - 3040 - 2PM

P = 2.7

0	NGOW
60	S 20 W
120	S 35 W
220	S 20 E
480	S 75 W
581	S 60 W
563	S 30 W to car
1037	— Rd = 35 p. to L of car + north Hump PAWt Br

June 19 - Thurs.

Rocky Gap to budge (ccc) at Midway = 5.55  
Cider Co line 7.78  
Back 1.38 mi. to home of suspension  
budge - trail to L here  
Over water creek - 1820' at 10:15



2650 - 405 4<sup>th</sup> Xing of Mill Rd ahead  
↳ (2660 N 330) - Check bench &  
N down here? - Clinton floor L wall  
3315 - crest

3330 - spring of main creek 12.55  
3440 - crest 1.15

146 Spring of Adet A - all ore appears very  
siliceous, coating the sand grains + filling  
the interstices between grains - there are numerous  
cracks of peridotite & some of wood but no  
large pieces of good piece ore - The mineralogy  
is lower like Clinton more than like Db - though  
I find no form or other characteristic that would  
definitely indicate Clinton

146a on dump to S75E ± of Adet A crest  
- gray + pinkish gray - with Mn. in cracks -  
in standard slab longitudinal Mn. cracks  
- no fault to be found - of the horizon  
with Traylor house

3340 - 2<sup>10</sup> - Buckhorn Spg<sup>(2)</sup> (to tower)

147 3360<sup>3PM</sup> - Adet B dump - fault is some  
coarse + fairly enough to result Db - ore  
very sandy - much of it merely slightly  
stained as far as possible is  
- trail to mine down rd at pt. 6.4 mi from  
Rocky Gap



Note -

Boyd washed some of Gruver's West  
mine dirt (the best) & found it took  
239 trucks of 5 tons (4 yds) each to  
make a car of 40 tons of ore  
- this in a 30-1 ratio of dirt to ore!

June 20  
148

- Dr. - Benton Garden - end CCC Rd  
N75E, 20S - Moccasin 3095' - 300

June 21  
149

- Sat  
Dr. and CCC Rd on crest Red. Mts.

June 24  
150

- Tues. - Nye Cove - see over.  
Grapefield area with Byron Cooper  
11:20

3085' top of knol. NNW of BM 2598  
- all Clinton - Keuper mostly - some  
of red below.

3190 Don float Ind. Guld Branch

3178

~~3340~~

Clinton N75E, 15S - 1.45

2880 - Dr float - near top Db<sup>2</sup> - 2:10

2980 Up in Don float (probably to 3000)

2990 - Clinton only - as to W

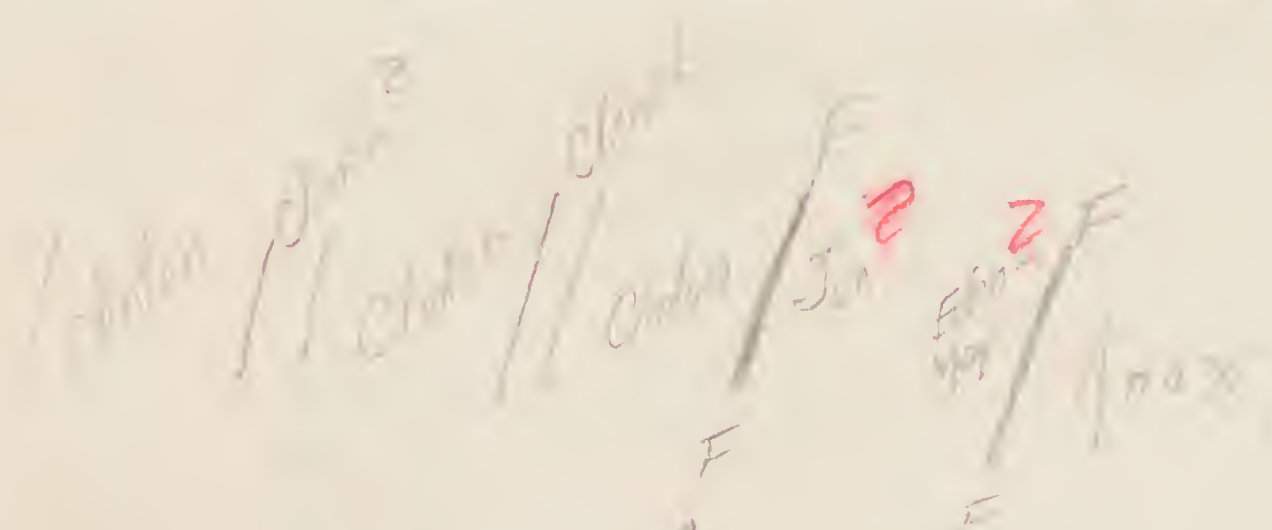
156

2980 - Clinton float with iron conc.

(over)



Nye Cove - section along rim of creek  
above water level



The fault line about 50 feet  
above bridge



2798  
~~2965~~ 2:45 - Don foot - top of fm.?

\* 2605 = BM 2+43 av 3 25

June 25 - Wed.

Ames Hickwith ch. 2205' 9135 (= 27.67 H.)

7.2 mi from Hickwith on rd. Grapefield - near  
Xing Cr - turn N on over rd toward  
Rich Mt.

12\* - #1 - toward Morris fork from above joint

7.3 N65E, 50NW - Dbs - on rd.

7.35 sharp fold, <sup>anticline</sup> on shales - axis N65E ± - 45 SE,  
19 NW -

131\* - #2, 3 - above fold

7.36 - syncline

7.46 - beautifully folded section to here

7.57 - turn R (dingy bed to gully straight ahead)  
- turn L - 11 valley of lower Dbs hills

7.9 - " R up Spring Br. toward Rich Mt

8.0 - folded belt sh

8.11 - X cut in from R = Clear Spring Br.  
2350' 10:50

N60E, 58NW - sh. <sup>200'</sup> 80' above Xing - on branch

N55E, 38SE - " <sup>375'</sup> 150' " " - 2355'

N35E, 15SE - " <sup>200'</sup> 360' " " - just above house

1780' 940' 2415' 11:15 " - in creek N41E, 13SE

3065' 1220' 2460' 11:20 Dbs N60E, 31SE

hard gray ss in creek



1370 - Don + DG floor abundant

1570 <sup>2528</sup>  
~~2535~~ 11:35 Don very heavy at base  
of flat iron - probably under  
lam & Dbs here

<sup>2550</sup>  
~~2560~~ 11:45 N60E, 38SE - Black sh

<sup>2635</sup>  
~~2650~~ 12:15 at creek  
- up <sup>to</sup> creek to W - still Dbs

amer. 2375 - 12:40 (= 2350 at 10:50)

R/S #4 - looking toward sh hill on belt seen above  
creek in back ground in Rich Mt.

- amer. 2443 BM = 2460 - byard Grapefield  
close to Rd. - cross creek on old road  
below mill - 1:20

- up over Don flat iron - at elev <sup>2860</sup>  
~~2880~~ 2:15  
an at top - 567W of School: at  
Grapefield

- Don at least to ~~(31) 10~~ - 2 <sup>25</sup>

~~Rear needle moved~~ 2935

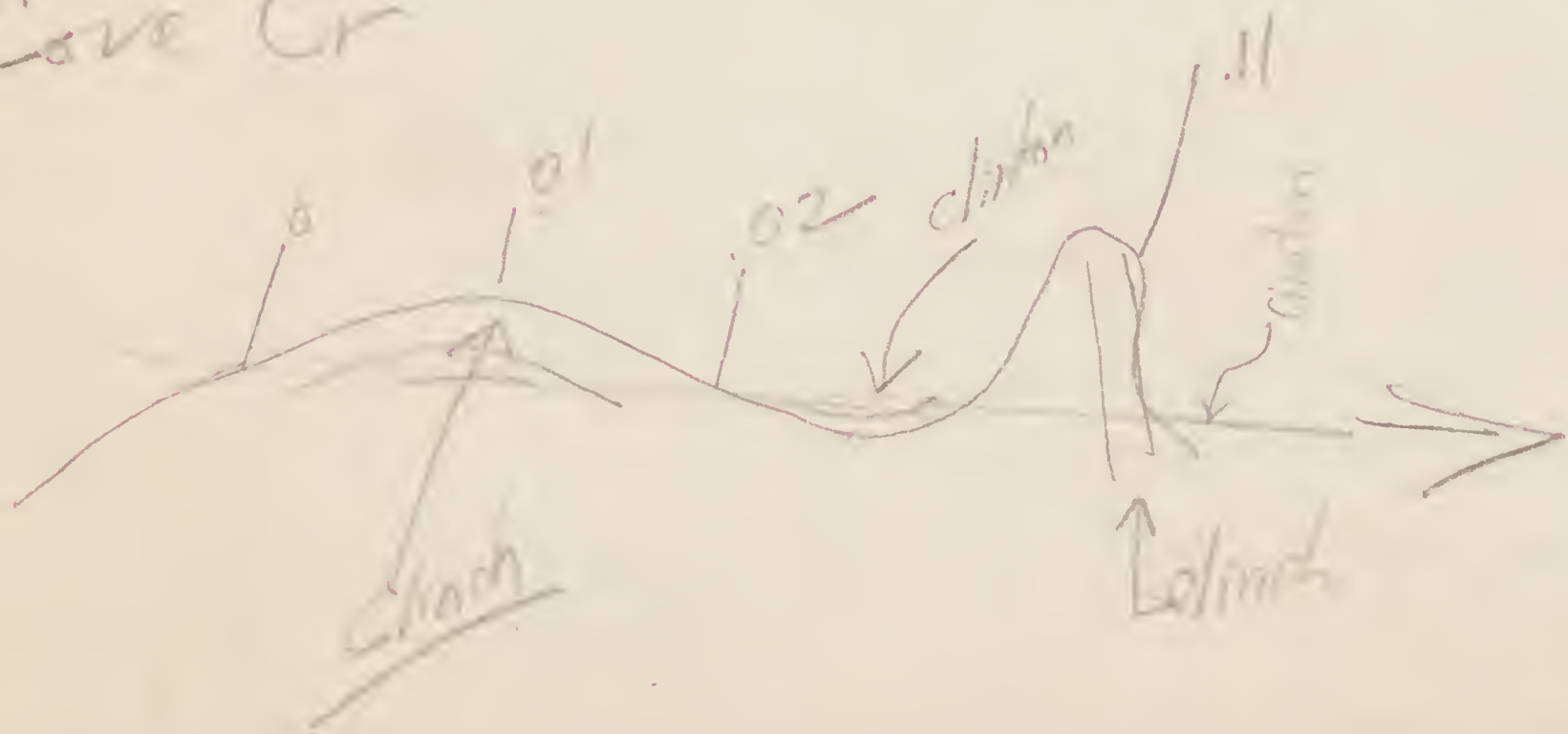
- now <sup>2958</sup>  
~~2975~~ (= 26.91 H) - 2:30 - crest of  
flat iron - depression on Mt. side  
good Db floor here

<sup>2915</sup>  
~~2938~~ - Don at least to this level - i.e. within

<sup>2918</sup>  
~~2935~~ 2:40 20' of crest of iron  
- am S29W of Kidd house (HHK)



Cave Cr





2480 = BM 2443 at 3:10  
- up 495 ±

note - put "Db" near <sup>crabtree</sup> gap in Clinton - after  
reexamination

June 26 - Thurs.

Arr. 2400 - 8:25 - Nye Cove - rd. opp  
Db hill 3.5 mi. below (S) bridge  
over East Fork Cove Cr. [not on B.M.]

[= 120' ±  
below crest  
hill]

Db N68E, 29SE, base of cliff on reddist  
hill in rt. bank of creek - 2460 - 8:45

2520 top of actual bluff Db - in fact  
section not exp.

9:00  
2585, crest of hill - having come up over  
Don flint - chert on crest

To Cove Cr. & NE on Highway 61 to point .6 mi. - trav.  
toward summit of Buckhorn Mt. - on rd. 2250' 2230'  
10:20

- Knox N65E, 47S in draw to E of above pt.  
elev. 2360' - 10:35 - dol. - chert fl. - Cu. Ridge  
probably 2445 2440

2630 2622  
- 2645 - 10:50 - edge of summit woods - most of  
flint is Clinton ss.; chert in row -  
are probably close to fault - a  
coarse fossil ss. flint (rare) looks like Db  
46







2835

2845

2760 - near top, <sup>steep</sup> ss. boulder slope - Clinton?

~~3080~~ 3058

152

2995 - Arthropycus in block 11:40  
- glauconite

3145 ~~3170~~  
~~3085~~

- western end cleared crest 11:50  
Clinton gray floor on rounded  
crest

3095

~~3125~~

3070

2 - N18E 56E - Clinton - just S of crest  
12:15 - coarse, white, finely cgranitic, very  
friable ss. - 800' ± ahead crest  
broaden out + draw beds toward  
valley to S - boulders from cleared  
land on crest are piled at head  
of this gully - Clinton - ferrug - red, etc

Down horizontal - heads easterly

N70E, 35S - fine white ss, some hard  
some friable - prob. Clinton, possibly Clinch  
2835 ~~2875~~, 2790 12:45 - ss not glauconitic

153

2795 ~~2835~~  
~~2750~~

- 12:55 - red - speckled ss =  
Sumatra?

2760 ~~2805~~  
~~2720~~

- 1:05 white glauconite here - may be in  
place - attitude obscure - good S.W. floor here

2740 ~~2790~~  
~~2705~~

- 1:20 - slickensided ls. + shale  
- some almost variegated

N80E, 36N (above) - 65N - below (S) 47



- no fence seen - looks more like Mor. than Martindale
- 154 pink & shaly above (N) - 35' ± }  
 155 grey heavier beds 45 - 25' ± } Maccales probably
- evidently close to fault
- to 569 E has 2 story house 5 y Rd - on

- 2670 <sup>2915</sup> Bland Co line  
 - ~~2630~~ - house at head gully

156 <sup>2475</sup>  
 → 2450 2PM N 71 E 42 S - dol & sh dol  
 - probably local Knox but may  
 be older - mass. lenses between  
 here & last - 8' thick gully - up 10' ±

~~2450~~ 2380  
 2365 215 N 74 E 45 S - mostly Knox  
 - on gully

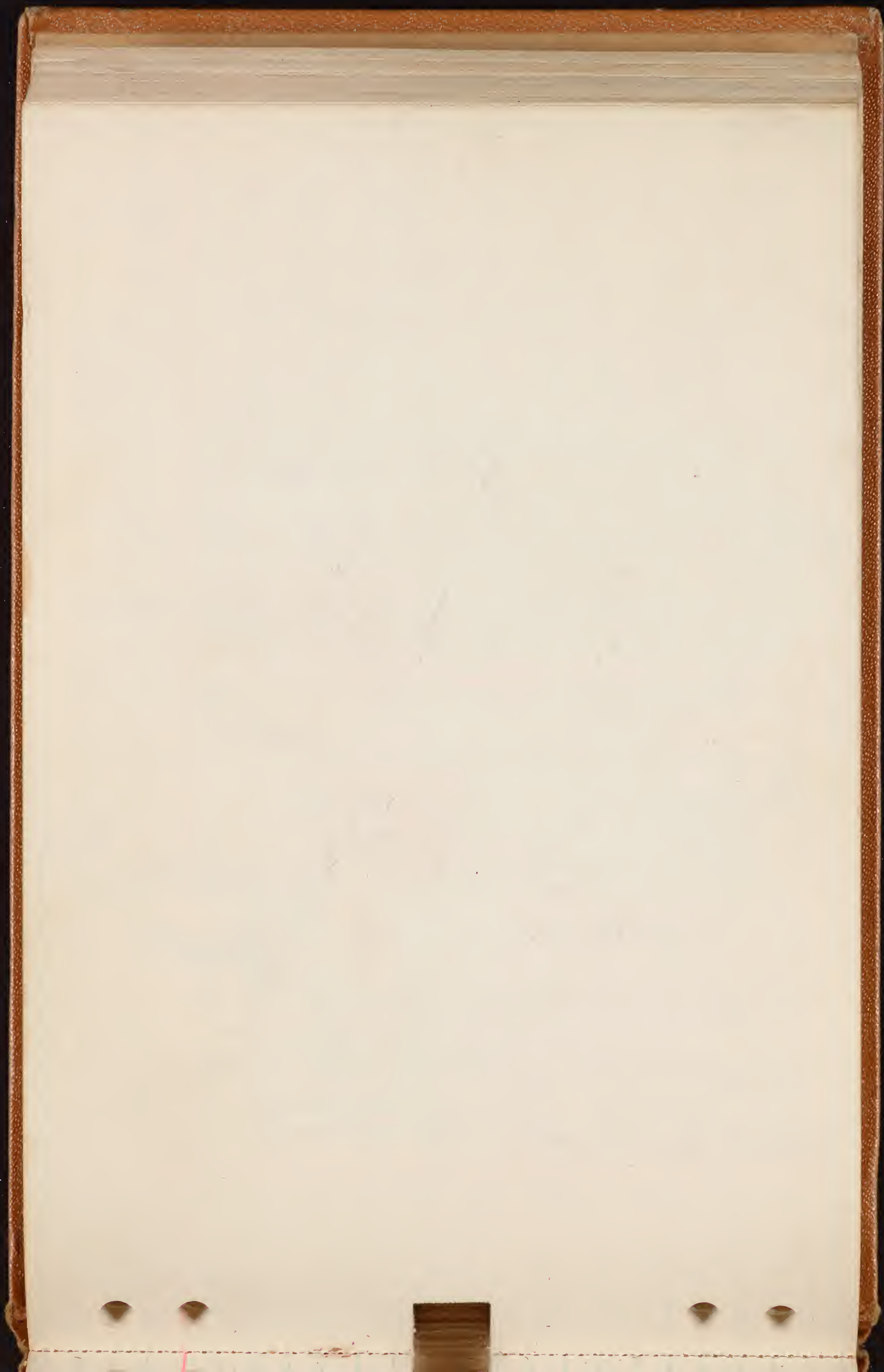
2300 ~~2365~~  
 2280 Rd. at Noel house - 2315

2250 2215 Back to car 2130 (= up 65' in 4 hrs)

- 1.43 = Noel house
- 1.72 = Bland Co. Line









# Sweet Springs Area

July 3 ~ Thurs

0.0 Fill Sts. at road fork south of Sweet Springs -  
on road to Gap Mills (1.15 mi NE of edge Haren)

37 N53E 78W - vaughnith on E side rd. - heavy ledge  
alluvial to be disturbed = moshheim?  
N62W, 20S - same type ls. 20' above rd.

56 P. - down gully to rd.

0 - N45E  $\phi$  - fossil Moshheim - ? crop in gully

8 - lygon - same as above - outline Lophospira

34 - N45E, 79NW - similar to last

87 (x2.5) - rd

{ - on NW side of rd - in L bank creek in coarsely lygon  
gray ls. with massive colonial fauna. N55E, 75SE  
- 20' toward rd = gray ls. with black chert -  
N50E, 56SE - L side of creek in front of  
E.R. Baker house. - rock shows poor fossils

N46E, 64SE - Moshheim between creek +  
rd. in front Baker house.

.65 "Viola" School (Sweet Springs School on L)

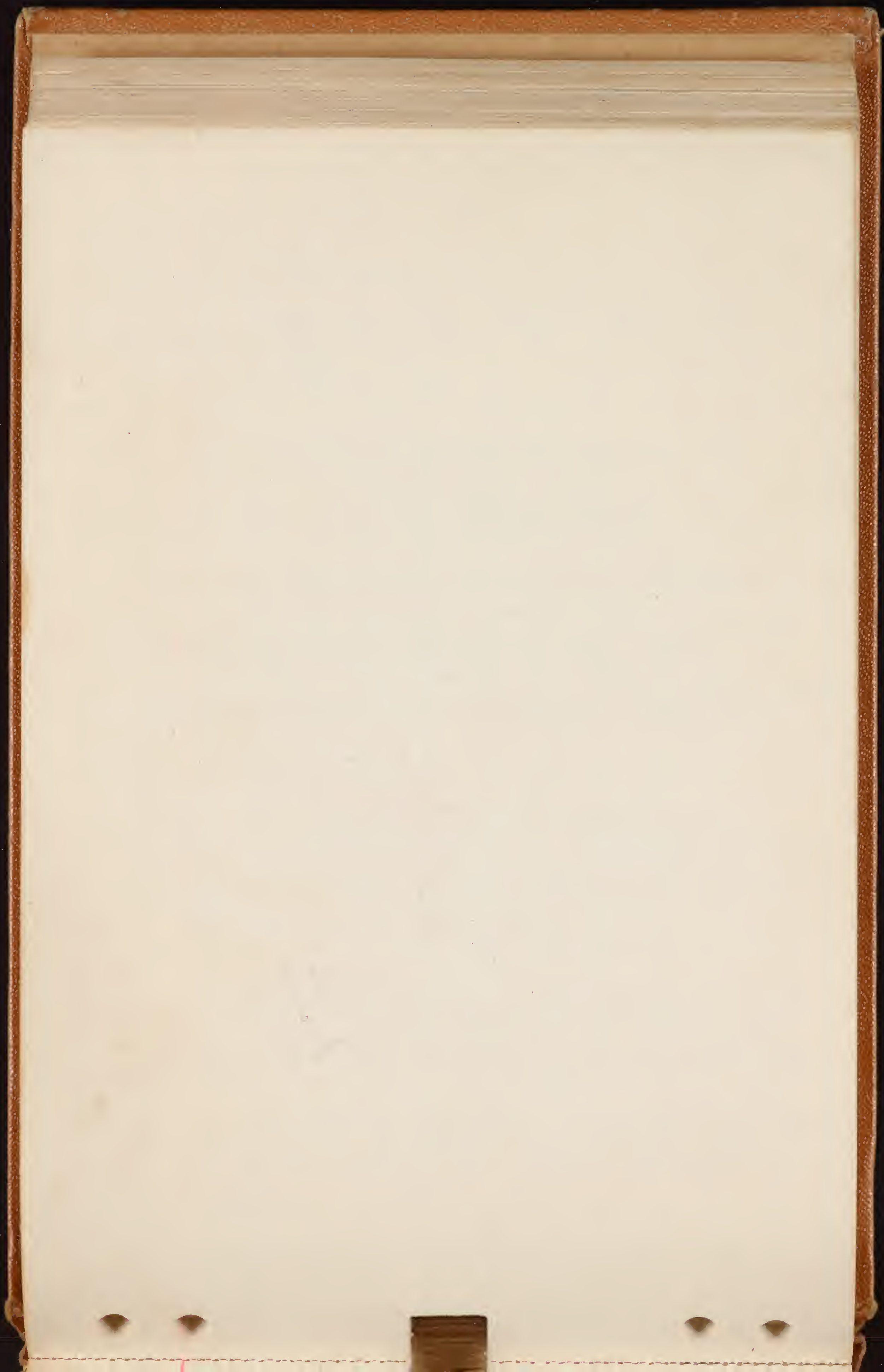
.85 Rd from R.

1.48 Greenbrier Church

1.75 N45E, 19SE - Stoner River? lam. lygon - thin  
lygon dark chert/rare

2.08 N60E, 25SE - lam. ls above + black cherty ls below  
- 12' exp. in left bank creek - lam. lygon  
look gray + dolomitic - subcircular  
massive calcite in cherty lygon







2.18 check on layers & structures of bedding  
- counter-slope on rd into house to R & rd out, up gently

2.43 Knox (J. B. L.) on out on rd NE of (Main turnoff)

2.94 rd to Meyer Mine (thin bed)

3.25 Cookstown Church - typ Knox behind church  
N60E, 55SE - gray dol - flat & exposed

4.0 - rd out from N45E, 24E - buff dol  
with dash chert

4.54 Allegheny School

5.48 - D. road

6.91 - Cent. Church

6.98 " School - abandoned

8.41 cross Ketchikan on to L bank (see air  
photo - old road stayed on other side)

N80E, 35S - gray dol

8.65 N76E, 30±S - bed Ketchikan Creek - gray Knox

8.72 cross K. Taper Cr. to R bank

9.25 Road from Round Br. enters on L

9.31 Knox N68E 40SE - heavy Knox

10.30 Rd to Zenith to L in Gap 19.15

10.40 Overturned Tonalite on turn N50E, 63SE

10.50 Clinch - upper opp. side - very thin } overturned  
N25E, 32SE } N25E, 42SE

10.51 Clinton N25E, 32SE - lower layer of exposed and

10.60 Clinton N65E, 76S - some layers very hard -

gypsum - minor fold upper and lower

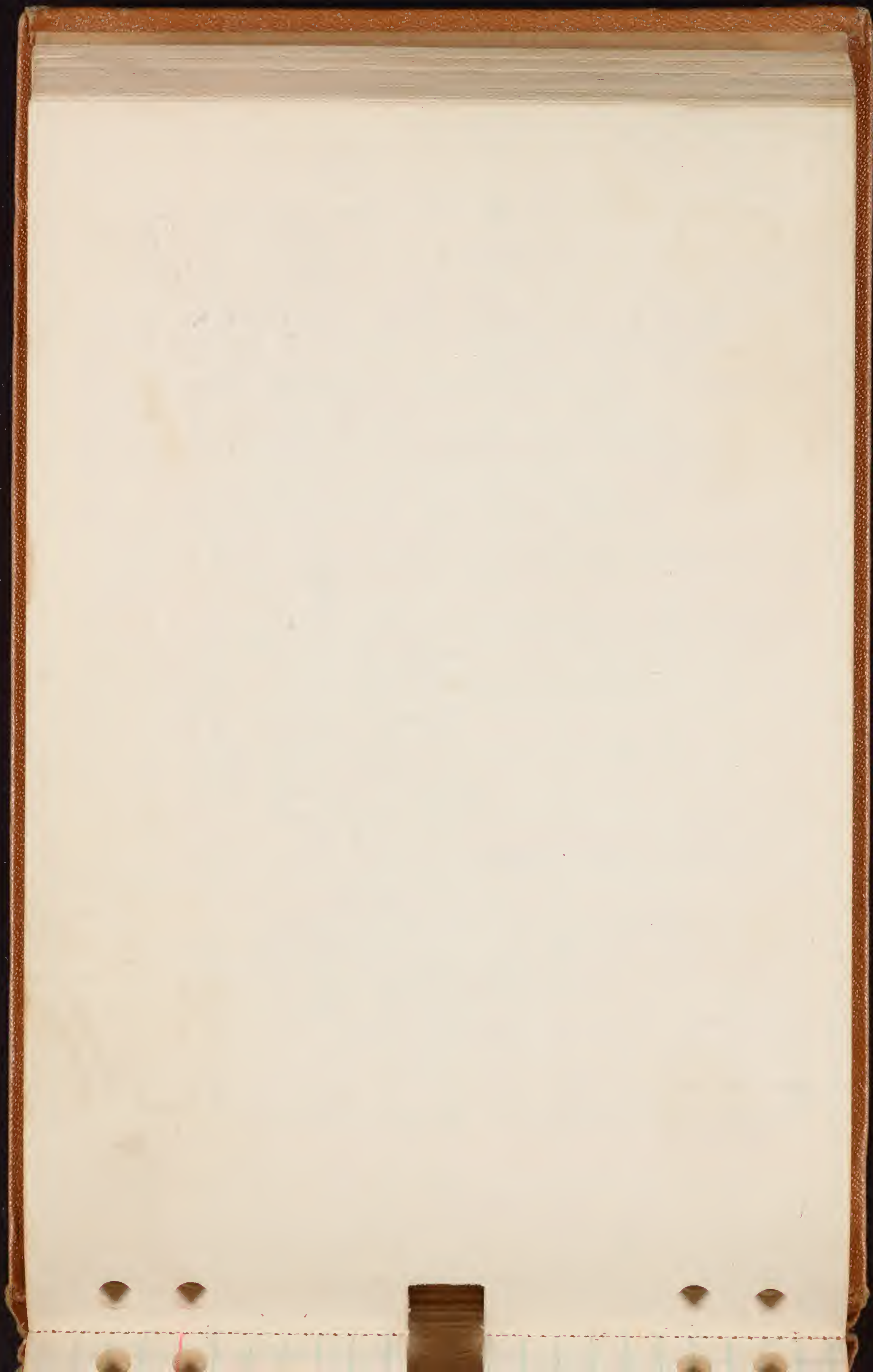
- 10 p. back (toward mill) a corner of clays are

exp. - not gaster N55-70E, up to 855 -

interbedded with clays and beds of

hard gray flint 6-9" thick - thin







Lith. identical with D<sub>1</sub> - many crinoid stems - some large - a few branches - no aspidomeres but upper few feet not capped

section probably upper Clinton (red Clinton to S - to. toward mill)

- about 15' clay & gypsiferous - some of clay above gypsiferous is only faintly gypsiferous - could represent Cayuga? [No]

- between above section & folded Clinton

The section is mostly covered (about 20')

but a bright green sandy clay occurs

- thin like upper Clinton & Dry Br

- 35' interval hard ss. between clay zone

10.68 { (old) (old ss. - branches to R at (thick beyond mill)  
N60E, 55SE - Clark's Onondaga?

520' from home to Don

10.9 - Dbs N60E, 0

10.98 - Turn R. up Dry Br

11.50 NSUE, 49SE - Dbs - greenish sandy sh.

12.10 cross Dry Br to R back - Red rose  
Chert (see Brink Mt) used in road  
work along here

12.47 Dbs - N70E 0, hard greenish gray sh. ss.

12.84 light gray slightly gypsiferous clay in red gullies

13.05 Dbs N60E 0 (other Dbs between here & 12.47  
are 0 or nearly so)

13.20 Dbs N70E, 60W

13.30 Rd to L into gully - (Kittlingbury)

13.48 N45E 0 - Dbs



- 14.03 N50E, 70SE - Dbs - blocky iron stained  
gray ss.  
14.32 N60E, 79SE - Dbs - gray sandy sh.  
- top small rise  
14.68 Dbs N64E, 50SE - blocky gray ss + ph  
14.92 cross cr. to R. bank  
15.20 Dbs N60E,  $\phi$  ✓  
15.41 big house on R = Roxalia - old rd. not open  
15.50 Dbs N70E,  $\phi$  ✓  
15.90 - high pt. on rd to L - return to Roxalia

N70E, 80SE - Der. Black sh. - left bank  
creek below Gap Mills at point S80W  
of Don on old rd. (above) - just above lower  
end of rd. in creek

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N65E, 61S - Clinton left bank creek  
behind (S80W) house below Gap Mill  
- big "Db" mass between here + Dbs  
but section this side not as good as Rd  
- gray + white gypsifer ss - could be Clinton  
or for or little is concerned.

Note - from rd. can see gully + sec. rd. in  
across cr. - gully the Caryusa rock not  
exp. + fault Db-Don? - looks so  
but with section overturned it probably  
is Clinton sh. that forms gully +  
Clinton gypsifer in "fault"



July 4 - Friday

Mr. T. Walter Fied of Middleburg, Ia. called - he is partner of Stanhope-Wiedeman Co (Stanhope Wiedeman home address is 428 Fayette Park, Lexington, Ky). Fied says he has 1800 acres on SE side of river miles from Paint Bank to Laurel Br.

Leased Paint Bank property to Blue Ridge Manganese Co (Ray Arms, Pres. & Engineer) & Victor Harris, Treas.

Paint Bank under Stanhope Wiedeman shipped about 500 tons good ore, he claims.

Pickets (one at main pit & one on road above now worked out)

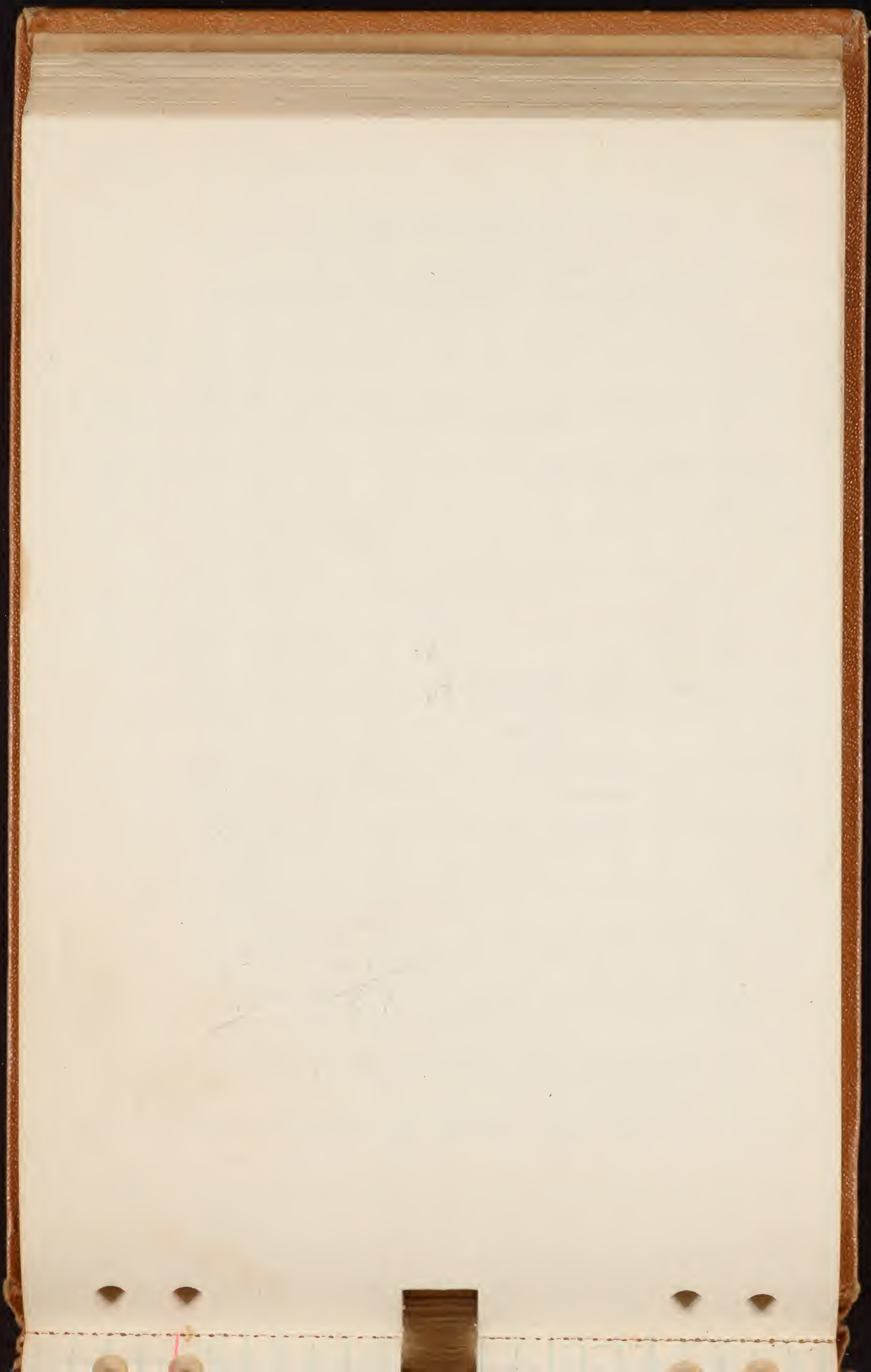
Put down 25-30 churn drill holes to depth 70-100', taking Mn. analyses every 4 feet. Most holes ended in hard ls. - penetrated 10-12' overburden & found little Mn (such as found mostly in clay - more clay than sand) Mn. ore only 2-3% in most holes.

Log & map showing holes sent to Chamberlain Ore Co & "lost".











3.01 Main overthrust - Edin-Mary crumpled & faulted here - locally  $\Phi$  -

R - 16  
17  
18  
19

5 } Main of folds & faults in Edin-Mary.  
6 }  
7 }

8 - main overthrust & Mary crumpled + high head NW/1  
- N50E, 30SE = Ed-Mary above strike fault -  
Mary below fault are crumpled

3.11 bearing road turn N70E, 50SE - 1/2 mi

3.22 - Va-line - end Peter Mt - in road summit  
N65E, 45SE

- 70' beyond crest there is a fold - or small  
fault or summit & attitude changes to  
N65E, 54NW - red green beds with some  
hard yellowish bedded (see Cooper would put  
this in Clinch)

3.25 Clinch N35W, 35W, bearing road  
small fault - massive layers split  
up to 3' thick - only exp for 115' along rd  
beyond this a soft white sh. bed in road  
gutter - part of Clinton probably

3.32 N60E, 50NW - Clinton? - good exp in  
rd gutter - brown thin bedded sandy sh.  
- explain of red clay or that probably in  
Clinton - sh. bedded - N55E, 45NW  
75' beyond here - red Clinton

3.35 N55E, 70SE = red Clinton - thin good  
red Clinton - with very clay areas, etc  
(prob. not bedding)

3.85 - covered here - probably all Clinton  
- rd 647 taken off to R - here



16

3.89 - N4E, 7SE - red Clinton with few  
- chiefly rounded stones & few broken  
- ss coarse & contains small pebbles  
note resemblance of weathered part of  
sample to "Dt" - this rock could  
give good 36 ft! 36 ft

3.95 ss N70E 8 - ~~slump~~ <sup>ss</sup> beds on  
end for 50' - 70' - white, fairly in some red  
wavy stained mudstone - probably Clinton

3.99 - beyond that is low syncline in  
similar ss. but some beds glaucous

{ N50W, 12SW - above  
N55W, 10NE - beyond (at 3.99)

4.18 + just beyond - grey glau - probably  
higher but could be Clinton - rather  
small ft

{ N78E, 20W - above  
N25W, 6SW - below

4.30-4.32 higher in N78E, 15W - reddish

4.40 N45W, 20NE, yellowish, Clinton ss  
+ reddish

4.50 N45W, 38NE, light rounded, light colored  
Clinton pr - this crop almost certainly sharp

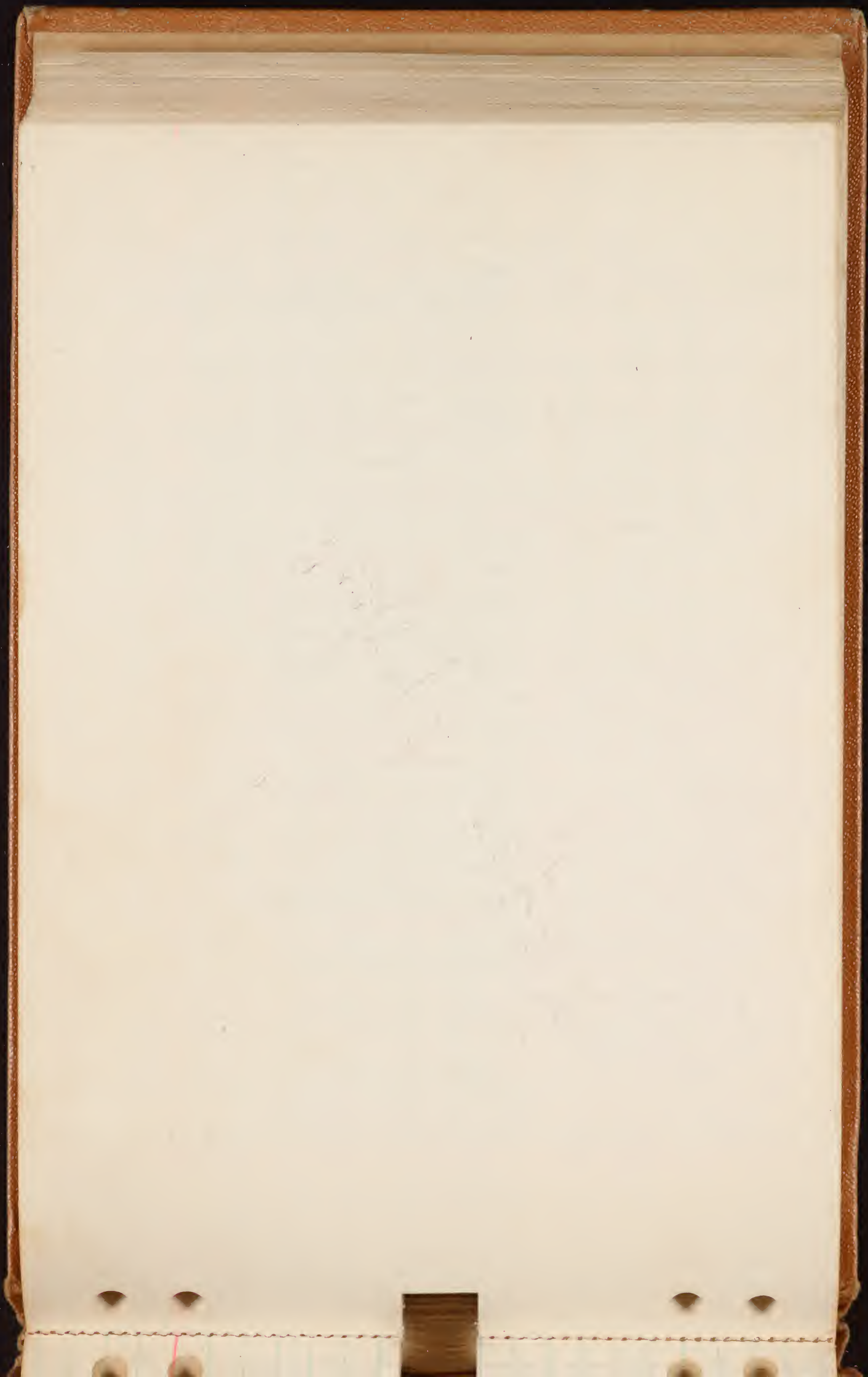
4.66 " N5E, 30SE - of

4.91 around curve to

5.15 N85E, 10N - heavy beds fairly Clinton  
sand - yellow & pink. - some var.  
prob. low slump - sharp crest of a  
point ahead - deep gully on L

5.30 - long ridge in Clinton - of - pink + 55



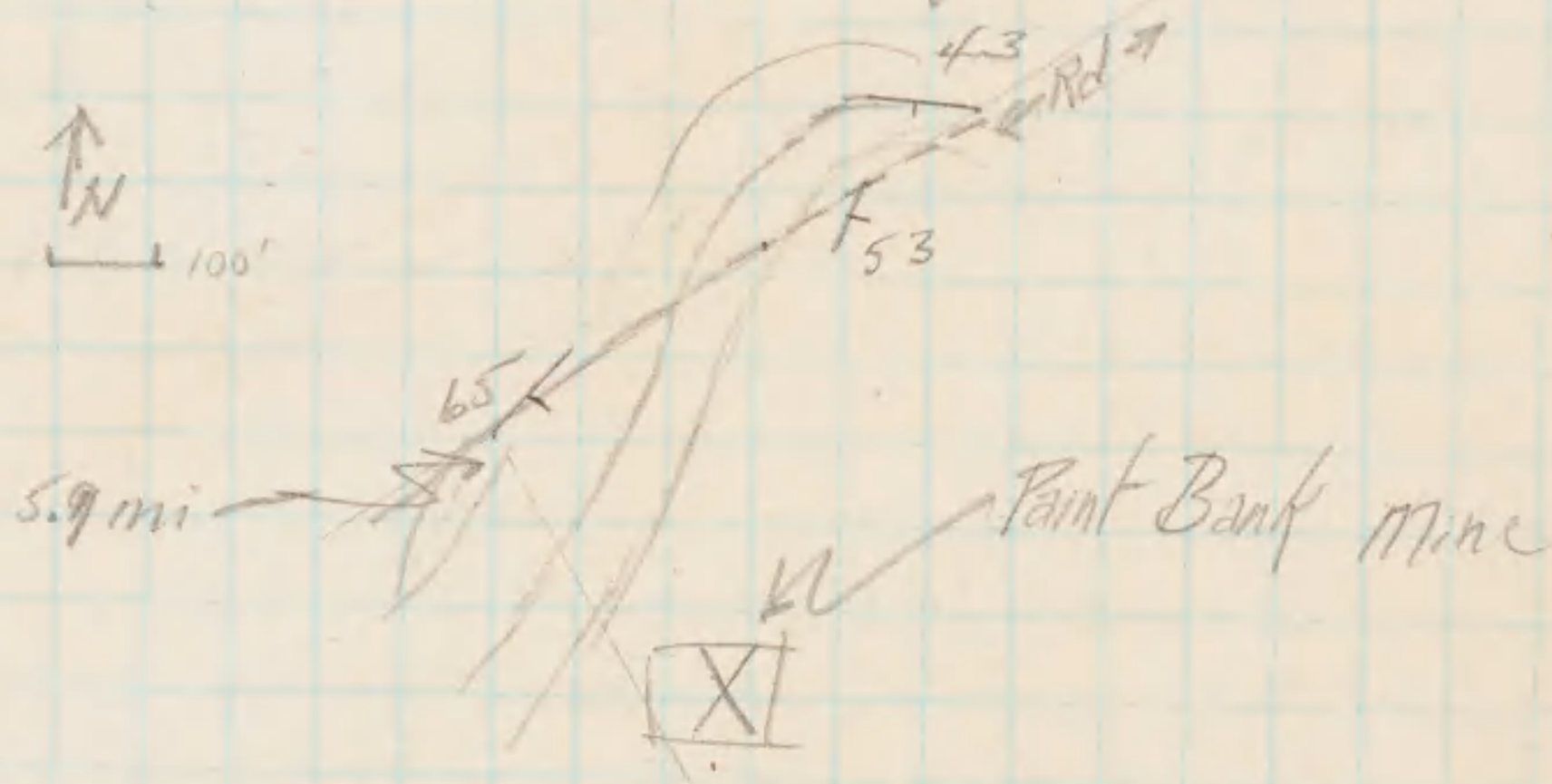




yellow friable ss in thick beds N65E, 31SE  
 - some thin greenish + purplish sands  
 5.45 - center thin ss + sh ss in shallow  
 syncline into hill - thin almost  
 certainly slumps - below in anticline  
 of similar type

5.90 Pepple marked Clinton ss - thin just  
 above main pit of Paint Bank Mine  
N45E, 65SE - thin abnormally high  
 dips could put Ton. between here +  
 mine

N85W, 43S - same 230' thick of last  
 - may be little fold (or fault) to  
 and ore dips.  
 - N22E, 53E - 120' beyond last



6.03 - roadside tunnel in Db

20.21 #1, 2 Cam. Paint Bank washer from above tunnel on Rd



This tunnel abandoned while still showing  
good ore - dangerous due to heavy  
overburden of ss. & clay - opening here  
20' off main highway - have excavated  
sub-circular pit 25' in diameter - bent  
down off ridge - 5' across - bent  
5' to by south chamber - bank  
12' at back of pit - near up pit - rock  
timber at entrance are at contact of  
ore-bearing ss + overburden of ss & clay  
boulder - taken shown no more.

So at entrance in gorge, iron stained  
X-bedded with some chert ore in hard -  
blue in shade + less regular masses  
- mostly tending to // some bedding of  
rock - bent 5' of ss & the rock  
is soft lam., more calc. soft fairly  
fine to med gr. ss - (suggestion of ton  
but not a clay)

N45E, 29SE (+) - in quarry ss  
is stained reddish like typical Db -  
however, the presence of chert is unusual  
- appears to be in lenticular masses up  
to several inches in thickness // to bedding  
- one of main cavities ~ 20' in diameter  
- cannot see other  
- note that dip on Db appears regular (or 30° E)

- 6.1 - a reversed arch <sup>sub</sup> - ore presence to show  
6.3 on mt. hill - pointing to more steeply tilted  
6.6 - junction with Rd 18 at edge Point OK 56



return to creek & take old road to E

0.05 - Claret N30E 40NW - poor exp

0.10 Clinton N50E, 22NW - heavy, exp - mud

0.20 at fork of old road - Piton Mt

0.60 fork at washer - take old rd up Mt

(3 min for other installed at washer)

1.3 - home on E washer at school's graveyard

90 - - - -

1.35 Clinton N32E, 56SE & Φ exp  
for 90' along rd

1.50 N45E, 35NW = slumped & Clinton - heavy exp  
- mud washed as bed 18' to 2'6"

1.6 & to E

1.63 - budge over cr

Drive from East Bank washer down Potts  
Cr. valley on old rd for distance 2.15 mi -  
no outcrops - where creek (near in high flood)  
large rock Piton Mt. then in heavy exp  
talus - mostly Clinton - probably are a  
few sh. (used as road mts)

Called on Jay Larson who lives on East Bank - at home  
- acc. local man how prospecting behind pit hill  
SW of Piton Mt. & had gotten fair ore - did  
not to Mt. Church (cannot be climbed this end)

take 6 & 7 to SW of New Rd - Twp Hgt Mt, Ch.

1.55 N65E, 23SE Red Clinton - exp - high 57  
Facing



1.68 N33E, 12SE - Red Clinton - long narrow crop  
 1.70 N52W, 23S " "  
 2.07 N20E, 18SE " "  
 2.25 - turn round in red Clinton floor  
 of creek (am 15 beyond turn  
 down to Paint Bank)

July 9 - Wed.

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Visited our pit opened 1/2 mile SW  
 of Paint Bank, Va. - turn R at pit  
 .5 mi. SW. remain on R & climb  
 side of pit - for 200 - 225' ±  
 - in talus? - contains limestone  
 hard pink from to medium  
 ss. - x-bedded - porous along  
 beds - some on cleft beds  
 - matrix a soft sandy clay  
 - pit 10' ± x 15' ± in diameter  
 - hard rock probably "Bank" but may  
 be Clinton - no chert in evidence

Red Clinton

164

With some + pit to see washed material  
 (from old prospect) at Paint Bank washer.  
 Here found crushed med. ss (taken at  
 pit) that show impregnation of  
 Mn. - saw no good evidence of  
 lamination. Impreg. in + hard lam  
 on (cherty?) maybe from different loc.  
 Saw no good Mn. in any of hard  
 from ss. on dump. Paint on in ss in  
 in porous med. ss + saw little of



the in field  
Note -

Chambers Co. Co. got got contract through  
young Leith - reserves geologist or  
mining man in company. Allen -  
Chalmers proposed. When plans but  
he not have it yet. Anne helped  
with Allen Chalmers deal - has seen  
only hand spec. of on up to got  
specification. Company now said  
to have new angles. (Bush Meadows  
said to be first clear rock exposure  
but only has something just appearing)

Note -

RR turner Bank pulled up 15 years  
or so ago - built in to take all  
Orebank iron - old house in town  
and company built.

165

<sup>2</sup>  
N55E, 55 NW - Db. with Mar. in  
rd cut at pt. <sup>near SW</sup>

Point Bank on, property of  
Hampton Martin (E. R. Martin  
who owns Anne's place in Uncle)

- N70E, 5 N or possibly a better reading  
- on bearing to see also road to outcrop  
upstream close to creek beyond Martin  
house

- N65E, 25 NW heavy ledge close to  
Martin house

- N50E, 35 NW



Rev. Bl. sh - folded along road N50E  
along Linton, J.W. (estate) - 300' above  
house in the bank

0.00 - w. Va. line  
5' - 2' <sup>Exposed</sup> Table Cr. to R.  
1.06 - X <sup>Exposed</sup> Run near Martin house  
1.15 Db begin  
1.20 Db ends - close to Cr.  
1.58 X Atts Cr. to L

Along Grant Bank Br - Little Mt. to Grant Bank  
0.0 { 0p - Limestone - hard yellowish grayish ss  
interbedded with gray red & green  
shaly ss - N50E  $\phi$   
38 Clinch - N55E 82SE - overturned  
48 Clinton (seen in road)  
0.02 { 73 on red Clinton - section continues on  
ad. to Grant Bank - good place to  
get thickness - N55E, 78SE  
- Very good section - not high up of ss on  
summit - shift Clinch base down road  
to take in some of this 2  
0.30 - School  
0.40 = BM 1935' USGS - SW side rd - on  
road to the shaly part in L bank - pt N55W  
of school - 57' W of car - 25' E of bank  
- Black sh. much contorted - at base be  
average N60E  
0.51 - 0.56 - "Stoner Run" LS, cherty, highly fossil  
N60E 27SE - exp. along rd when 60



166

creek comes close - thickness of 25' feet exp  
(must be fault between this & last - not  
room for fault) - rock very cherty - mostly  
nodular & a few 8' or more thick in  
crowded with coarse, subangular blocks,  
crinoids, log oysters - etc. small blocks  
(col. 1 rock for + 2 of material for  
washing + acid treatment)

0.60 - from small draw, <sup>not rd to R.</sup> center Knox  
N65E, 51SE - Lam. beds with groove  
washing

167

0.69 - section left bank creek N65E -  
looks like ~~thin~~ <sup>thin</sup> ~~beds~~ <sup>thin bedded</sup> - dol.  
& sandy dol. - evidently former  
beds washed to Point Bank

0.92 x creek to L bank

\*

1.02 Arroyo house - now on Dbs? - exp to R?

1.11 Church

July 12 - Thurs.

Arroyo Mt. to SW of App. Oak

0.00 - low main rd

0.10 x - Sweet Spgs. Ca. N70E, 35S - Knox dol. gravel

.42 - enter woods

.60 - rest - still on heavy chert floor

.65 - heavy on floor

168

22, 23, 24

- climbed to top of m Dbs as to SW - N70E, 46S

- view down valley to N35W, N40W, N45W

- 150' to SE the Clinch forms 2nd high point  
lying N65E at about 55SE - then certainly  
is not a room for very much Clinch here! 161



- possibly "hood" in local Clinton - otherwise  
part of Clinton faulted out?

.70 Dev black sh N60E, 67SE

.80 Dbs — N45E 4

.85 " — N55E, 80SE

.92 " — N30E, 60SE

.10 " — N45E, 80SE

1.08 " — N85W, 54N - folded

1.10 cross tube from L

1.28

- N55E at junction the tube + Bark Creek  
N60E, 85NW - Dbs in Bark Cr. front abandoned  
house - contains heavy beds sand grey sh. a  
few more beds

Cave Cr. Jct to Sweet Spr.

2.00 rd. Lk. in front of school. Dbs N45E, 80SE  
Dip only, 33 on SE side - (shape fold)

10 - creek to R Lk

25 Dbs N42E, 82SE

30 " folded

40 " creek to L Lk

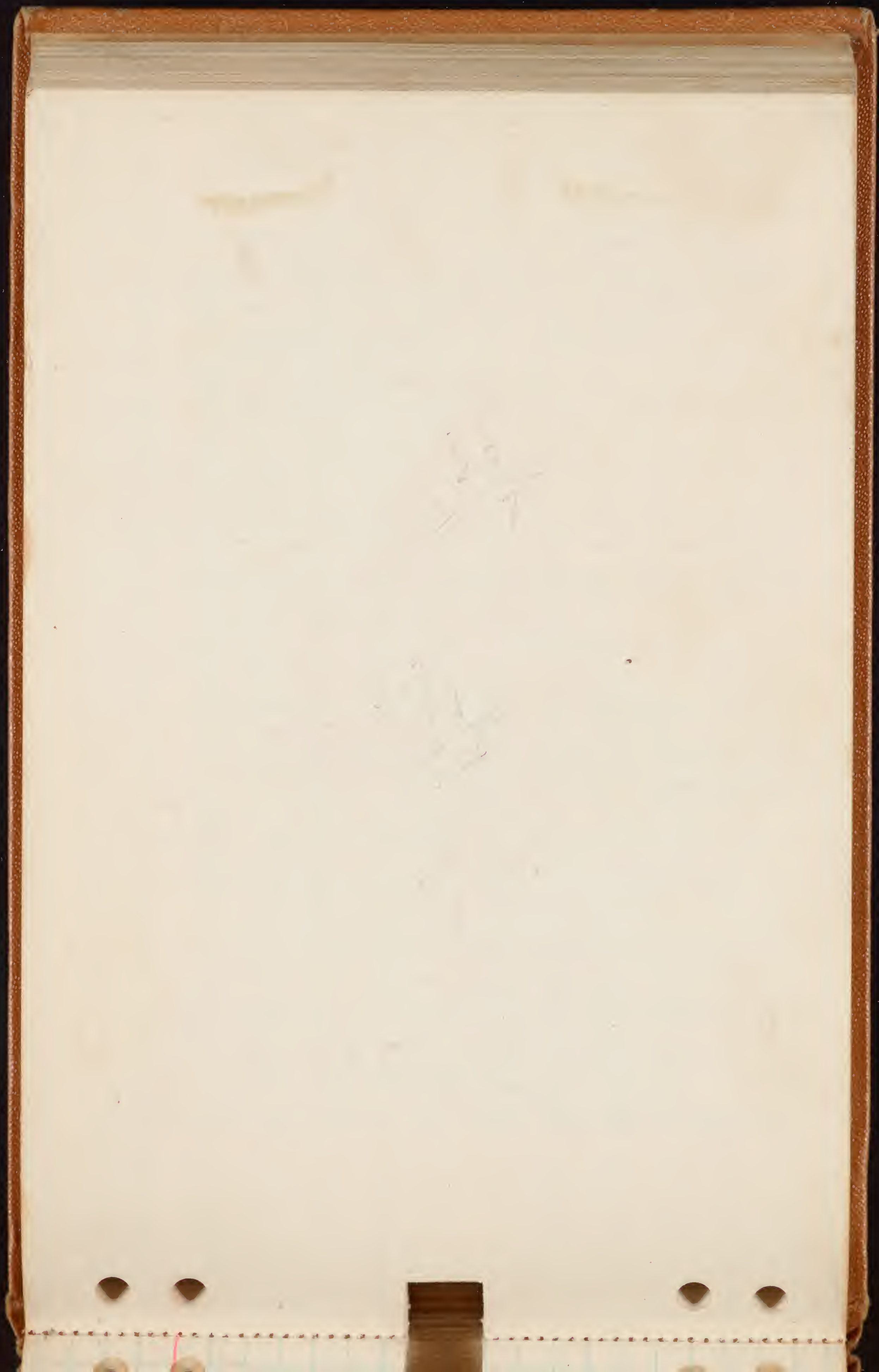
50 N45E, 81SE - Dbs

52 folded - local 4

59 - not out - "Oriskany" floor

60 cross drawn to g/ste - full length road in fault  
(fault then home + spring) - draw many  
represent a ls interval + g/ste. The local  
part of the Clinton rather than Chenango  
- 60' across "g/ste" from N40±E, 75SE  
- 70' " draw to Oriskany bed







525' from rd

169

- up draw to E - for Shickensford Creek
- exp. on bottom N60E 40SE - evidently from hill to N = steep slope
- crinoid + bryozoa occur in gytia on rd - at edge next to draw - faulted from fault - probably Onondaga - certainly not Clinch

65' from lat gytia to Knox N65E 27SE  
 0.64 Knox  
 .95 turn R  
 2.13 - X Sweet Spgs Br.

170

To App. One mine - returned to point just NE of main workings - see coll. pebbles from the dumps - probably Clinton or Ot - i.e. "real fossil ore" - on which case "Clinch" near mine could be Keifer - so could similar rocks to SW + gytia next to fault in Cave Creek area. This also would explain red Clinton float in vicinity of App. One mine.

171

- Clinch Mon. to NE -
- 2010 (uncorr - 3<sup>20</sup>) = red Clinton on road N43E, 58SE

0 - 3180 summit 3140 - Keifer, N15W 85W

P22.6

146 p. bench to red Clinton  
 170 p. " " " " - to 525' of creek  
 351 p. " " " "



420 - trench spit - red chert +  
grey sandy sh

580 - trench to red chert

590 - outcrop red (see above)

3025 - 4:10 (up 10-15' in 50 min)

1015 (red pit 17 p. to L of here)

1360 - center cut - opp. edge of Store

2725' - 4:20

— elev 2410' at rd 4:50

July 11 - Fri

Rd from Kitchen Cr. to Laurel R.

1.28 { N56E, 20SE - for Cr. = base of river ?

172

Lower part of this section is a mostly fine  
blue sh - mostly biogenic + some red (see above)  
- higher beds (blue to brown) are nearly  
laminar + are banded - still higher in  
well developed zone of mud cracks

- lower part of banded beds contain numerous  
trilobites - all old from lower part of  
section only. All of section good for lower

1.6 turn R

1.73 on Eden - Grayville

2.49 Summ. N60E, 23SE

3.65 crest - appears to be at least 60' heavy

chert - heavy lg near lower exp. layers

3.80 take Rd to R - lower red chert - west of here

4.31 - crest of lower chert - all lower red floor

N56E 40SE = red chert on road

- chert 75' to west - no room for road 64



173

- the way of "lower shales" here
- 5.86 - turn L on other access rd. Toward Adam's farm (Adam now lives on here SW of rd - above)
- coll. fossils from rocky field 1.4 mi from main rd. There are local Clinton + mostly from "lower sh." on main belt of iron boulders but on crest to SE Ostracoder + trilobites common - with some brachiopods. Note iron boulder (2 pieces +) with tril + brach - these rare.
- descended but could not pick up Clinton - mostly red floor (some of it iron?) - gray blocks of for. Clinton widely scattered over hill

Db N7E, 82SE at 6.2 - below

- " N40E, 85NW at 6.7 - (40' up to top) also up on rd. at 6.7 - quarry + with little iron? - attitude - if like last would have 120' ± Db.
- either on both crops may be slumped

6.85 cross stream down down - near bridge

8.15 old rd - turn L

8.31 - old RR (= New Rd) down to

Turn SW on rd

1.60 N71E, 31SE - down to st

2.23 N55E, 55SE - road in creek

Historic lost down below rd - low land? on crest 6.5 mi SW



- 2.42 Dls N56E 51SE - red - thin bedded gray sh  
 " N63E 42SE "  
 2.54 "  
 2.90 " N70E 53SE " - at fork from R  
 - green sandy sh  
 3.63 X did not + but from R  
 3.69 N46W, 11NE, Dbs - in rd - green sandy sh  
 + 55' - no crops - valley, wide - sh hills to R + L  
 3.76 Dbs N48W, 9NE

- Up Trout Run to SE from Laurel Br.  
 0.33 Dbs along rd E-W, 22S  
 0.80 " N45E 31NW  
 1.32 " N47E, 8+  
 1.38-1.48 " dist., folded, var.  
 1.57 - house on L  
 1.70 Dbs N60E 75NW, poor road  
 1.78 house on R  
 1.92 - just before fork in rd - N65E  
85SE = Summit - Clench Mts  
 up Mts contact with Sun (pink  
 red) line 60' from where rd X  
 branch  
 1.94 X-br.  
 2.00 " " to R bk  
 6.35 passed rd to Oak Point  
 9.75 - RR bed " "



July 12 - Saturday

Arr. 1965' close to BM SW of Linton on RR bed  
(=27.80) 8:50 AM

To Traynham property where Crander layer - from  
sh of Jbs outcrop in branch between RR bed &  
B.H. Co. N70E & to low upstream

1995' on rd at Crander gals 9:30

2385 outcrop Db on Traynham prospected 10:10

Much of Traynham sh is sandy, impure. It  
but other gals sandy pure. Little fossiliferous in  
chert - mostly very thin. Traps appear  
variable, many covered - not as possible  
that than which Db mass has changed -  
like Clinton to R

- up to main gully (on 2 smaller ones) &  
up to 3070 before finding first  
outcrops (12:05) - 190 Clinton N50E 38  
SE

2270 2230 - Db floor appears - 12:45

2175 2235 - Dev at sh floor 1:50

2150 2175 100 - at tree to creek - no outcrops

2075 2090 100 - at rd to creek - "

P. DA Elev.

0 369E 2405 - 1125 Traynham outcrop Db

50 551E

100 555E

150 542E

184 516E

225 538E

320 542E

370 55E

P. less  
than 2.7



400 S7E  
 475 S20W  
 540 S50W  
 565 S65W  
 615 S20W  
 650 S10E  
 675 S  
 703 S10E  
 735 S32E *bank on R*  
 812 S55E *in 30' to R*  
 865 S70E  
 970 S  
 999 — old rd. creek

July 15 - Tues.

Db. on rd. to Oak Point - below old mine tunnel

0 - old mine

70 p. Db - fresh, X-bedded, mm on joints, hard  
 with layers 6" with softer fossiliferous layers  
 between, no chert - grain medium, no  
 very hard layers - see 1 fossiliferous layers.  
N60W, 34NE

Q<sub>1</sub><sup>2</sup>

85 - axis small fold

117 - N10E, 23W - small fold

145 - N75E, 45S - " " "

160 - E-W, 15S ✓

190 - small bend .09 below mine tunnel

200 - small bend rd. - Db floor

20-31 m on top of ... of ... 68



certainly in a slumped mass - s.d. are not full  
 & are somewhat irregular - some are rounded  
 - 25' N25E, 32W - may belong  
 on 130 - contains no really hard dense ss but some  
 greenish <sup>locally</sup> ~~hard~~ reddish brown ss - 1/2' long  
 or very rare but is present at both ends of long  
 interval outcrop. The ss is not typical of the  
 creek any more to det. but may belong there. Could  
 find no fossils of any sort - some of the  
 beds are too fine thick - lower end of interval  
 contains spheroidal masses of brown iron oxide with  
 radiating structure - N45E, 28N30 - at lower  
 end of outcrop as here supply - marked

- L.P. horizon is corner of part of above outcrop  
 - deposits of talus above here about mountain  
 " few small pieces of ore - Company should  
 want to open one trench just above - also one  
 above the creek - but in blocks - some  
 helped by sandy bedded material under  
 within the creek - not secondary / no -  
 Don

40 N62E, 25NW - ss. but very abundant - look

51

55 junction with #15 at edge Paint Bank

D65 N42E, 41SE - in P.H.S. Creek  
 W pt. 388 W of Martin house



174

To bridge over Portals of Lower River  
 up stream on Salmon River to bridge  
 Crickway 200 across - 10+ feet thick  
 Three foot caps  $\pm$  ~~at~~ <sup>the</sup> with slight  
 dips and full - gray chert first on  
 top of it - if slumped it has not come far  
 - most of rock is hard, porous, friable  
 (blue metallic type) - other parts of chert -  
 fluted + for (even steeper) - conglomerate  
 - part sample and chert floor  
 2200 - 2:40 - at 8/6 W of Lumber house  
 - 2250 - 2:50 - summit of fold in  
 crickway floor

175

Descent to River creek - at 2085 <sup>3:15</sup>  
 turn down from left - hard white ss  
 on bed of - possibly Clinton - lies  
 N 75 E, 95 - ss. fine gr. + dense  
 - cannot be Crickway  
 1915 - 3:30 - back to old road - at 1900  
 1910 - 3:45 - at foot bridge - up to Lower River

July 16

Wich.  
 down rd. 5.5 m, <sup>at</sup> NE creek on Coarles place  
 1975 - 8:20  
 down rd. and up to NW over shale  
 floor - at about 2000 (8:45) - some  
 distance beyond - up to 2465 - on well  
 lev. Crickway foot here - uniform  
 slope with no boulders - mostly  
 red Clinton - had SSW to foot  
 (after cutting around to 4)



2268

cross cr. at 2280 (9:30) - abundant  
Dev black sh. floor at 2300 just  
above stream on R bank

- <sup>2385</sup>~~2400~~ up on Bl. sh. & into yellow sh
- <sup>2450</sup>~~2470~~ - crest (10:00) - Dev. Bl. sh. just below crest  
on N7E g. house marked A - look up
- as seen from here most features (beyond  
crest) are very distinct & prob. a Crinkly  
in third creek (Kiefer?) appears beyond  
last it is not as distinct

Trayohem Crinkly flatness and very  
distinct & there is a shale hill (like  
this one) below it - Crinkly (3) appears  
to form distinct row on big ridge  
beyond Trayohem

- Dev. Bl. sh. abundant <sup>2560+</sup>~~2570~~  
"Crinkly" Loc.

- up to <sup>2727</sup>~~2750~~ (10:20) but found no Crinkly  
or chert - only great slippd masses  
red Clinton - DO covered by  
slumping or faulted out?

- around to W. - many chert floors at

<sup>2700</sup>  
~~2750~~ - Crinkly & chert at

<sup>2807+</sup>  
~~2825~~ - only red Clinton - grey in floor  
- no Crinkly or chert floor

176

- <sup>2765</sup>  
~~2800~~ (11:00) - for DO ss - crin, brach, cond, etc -  
big concentration below crest (opp. road)  
& red floor on crest
- in gully <sup>2850</sup>~~2850~~ - great mass of  
25 m



clipped Do - ferrug, c. quartz - other  
higher above may be a floor 12:15

2576 12:30

2615 - 1/2 pt. N13W of House A  
under on edge feature on Do N30E 25S

2035 on rd at 1:00 (= up 35' in 1/2 hr)

\*

N60E 45-90 - Do on rd to 1st iron  
washer - some 40' distance until clear  
good place for bed of bed section - 325 W  
of road bridge - 2nd from Paint Bank in old  
Wye in RR

.35 mile from washer & old Crickany  
put up gully to SE of it

177

N10E 26E - same loc - top Crickany?  
S45E of Whit House (between Linton & Mine)

Note - mapping shows Traynham prospect near  
top of Crickany - hence abundance of chert.

July 17 - Thurs.

Ames 1875 (10:00) - light blue (see 18:15) near  
Paint Bank washer

178

Visited mine area just NE of Paint Bank - Crickany  
at high tide holds up hill to SE of washer - Tom's  
loc. corner under = (to NW) - Dike from  
valley to SE. One at SE end put (at bank of  
small stream) in chert - upper Pt. Crickany  
- loc 1875 (10:50)



174

Sample Quakay on + Der Blak fun  
main part 2-4' Bank top 4' - rocks not altered  
- could think of. Should prove to be good sample.

180

- Top N50E 35SE - elev 1915 - 11:45  
558E of turn road - back road -  
Lepidodermis abundant - low of slope below  
low S10E of River - Bank Mn. Mn.

- 235W, var. to nearly 0 - shaly  
layers of upper Quakay or at least  
Potts Cr - 35' E of what has been for turn  
- perhaps some in valley above on much  
more, looking on Clinton on Bank Bank  
rd! - many of folds may be real structure.

To old rd - shaly irregular surface  
rd from High Mt. Rd rd  
0.2 turn L

0.5 N85W 35W Clinton low sparse rd - some  
very fresh

0.59 N85E, 11S " " " " " " " " " " " "

0.71 N67E, 15SE - Clinton to R of rd - rd  
down under rd

0.80 N60E, 30SE - var. - Clinton

0.81 N60E 5NW -

90' E-W, 29N

1.00 turn L - old rd - from R

1.08 " R

1.32 - Bridge

27 mi NE of crest = clark floor only

73



11/11/11

0.0 14  
177  
-2



Woodville, J. P. Deq. Game Warden



